RULES AND REGULATIONS

INDIAN NATIONAL SCIENCE ACADEMY
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RULES OF THE INDIAN NATIONAL SCIENCE ACADEMY

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NAME

1. The society shall be called the Indian National Science Academy.

OBJECTS

2. The objects of the Indian National Science Academy are:

   (*a*) The promotion of natural knowledge in India including its practical application to problems of national welfare.

(*b*) To effect co-ordination between scientific academies, societies, institutions and government scientific departments and services.

(*c*) To act as a body of scientists of eminence for the promotion and safeguarding of the interests of scientists in India, and to present internationally the scientific work of India.

(*d*) To act through properly constituted National Committees in which other learned academies and societies will be associated, as the National Research Council of India for undertaking such scientific work of national and international importance as such Council may be called upon to perform by the public and by the government.

(*e*) To publish such proceedings, journals, memoirs and other publications as may be found desirable.

(*f*) To promote and maintain a liaison between Science and Letters.

(*g*) To secure and manage funds and endowments for the promotion of science.

(*h*) To do and perform all other acts, matters, and things that may assist in, conduce to, or be necessary for the fulfilment of the above-mentioned aims and objects of the Academy.

CONSTITUTION

3. The Academy shall consist of Fellows and Foreign Fellows.

(*a*) Fellows, the number of whom shall be limited by the method of election. Those who accept nomination as Fellows, before the inauguration of the Academy upto a limit of 125, shall be the Foundation Fellows.

In the first year of the Academy not more than 25 Fellows plus such vacancies as may exist in the initial 125 Foundation Fellows shall be elected, and thereafter annually not more than 15 Fellows shall be elected.

Beginning with the year 1976 not more than 30 Fellows shall be elected annually.

(*b*) **Foreign Fellows,** the number of whom shall be limited to 100, and who shall be persons eminent for their knowledge of, or contributions to science, or the welfare thereof, and domiciled outside the territorial limits of India, who have in some way contributed or can contribute to the progress of science in the country.

4. Persons of all nations shall be eligible for Fellowship of the Academy.

ADMINISTRATION AND OFFICERS

5. The administration, direction and management of the affairs of the Academy shall be entrusted to a Council composed of the Officers of the Academy namely, a President, two Vice-Presidents, a Treasurer, two Secretaries, a Foreign Secretary and two Editors of Publications together with 18 other Fellows making a total of 27. In addition, there shall be a provision for an Additional Member of Council to be nominated by each of the cooperating Academies *i.e., the Asiatic Society, Calcutta; the Indian Academy of Sciences, Bangalore; the National Academy of Sciences (India), Allahabad and the Indian Science Congress Association* from amongst the Fellows of the Academy. Further, there shall be provision for the Government of India to nominate from amongst the Fellows of the Academy their representative on the Council as an Additional Member. Further, the immediate Past-President shall be an *ex-officio* Additional Member of the Council.

6. No Council member can hold more than one Office at a time except in circumstances relating to interim vacancies stated in Rule 39.

ELECTION AND ADMISSION OF FELLOWS

7. The election of Fellows shall be governed by Regulations framed by the Council, but these Regulations shall provide for following points, from which departure can be made only after reference to the whole body of Fellows.

(*a*) In the first year of the Academy, the number of new Fellows shall be limited to 25 plus such vacancies as may exist in the initial 125 Foundation Fellows.

(*b*) Beginning with the year 1976 the number of Fellows elected shall be limited to 30 annually, till such time as the total number of Fellows reaches 700.

(*c*) Each candidate shall require a certificate to be signed on personal knowledge by a minimum of three Fellows.

(*d*) The selection from the total list of candidates recommended to the Academy for election shall be made by the Council, but the election shall be conducted by postal ballot of the Fellows.

(*e*) Provision for the election of persons who, in the opinion of the Council of the Academy, either have rendered conspicuous service to the cause of science or are such that their election would be of signal benefit to the Academy, provided that not more than two persons shall be so elected in any one year, and that if two persons be elected in any year, there shall be no election in the following year.

8. The Secretaries shall send a written announcement of the election to the candidates who have been duly elected, and shall therewith send a copy of the Obligation to be signed, and of the Rules and Regulations for the time being in force.

9. An admission fee of Rs. 32 shall be due on election from the persons elected. If this fee is not paid within three months after issue to such person of the intimation of his election as Fellow, such election shall become inoperative. Provided that, the Council shall have power to reinstate him with full privileges after his admission fee and the first annual subscription have been paid within a period not exceeding twelve months from the date of his election. In the case of a Fellow elected under the provisions of Rule 7(*e*), the Council may, at their discretion, not require payment of the admission fee.

10. No person, although duly elected according to the Rules and Regulations of the Academy, shall be entitled to exercise the rights and privileges of Fellowship, nor shall his name be entered in the list of Fellows, until he has paid his admission fee and his first annual subscription, and until he has signed and returned the Obligation.

11. The payment of such admission fee and first annual subscription and the signature of the Obligation shall be the commencement of effective Fellowship and shall be equivalent to the expression of a direct acquiescence in all Rules and Regulations of the Academy then in existence, and of an undertaking to be bound by them and by such as may thereafter be passed, as hereinafter provided.

12. Rules 9 to 11 shall be written or printed on the letter of announcement of election sent to Fellows by the Secretaries under Rule 8.

13. Every new Fellow who has paid his admission fee and subscription for the current year, and has returned the Obligation, signed and addressed to the Secretaries shall, at the first General Meeting which he attends, be presented by a Fellow to the Chairman who addressing him aloud by name shall say, 'In the name and by the authority of the Indian National Science Academy, I admit you a Fellow thereof,' and will present him with a diploma in a form prescribed by the Council certifying his election to the Academy, after which the Fellow shall subscribe a duplicate of the aforesaid Obligation in a book to be kept for the purpose.

THE OBLIGATION TO BE SUBSCRIBED

14. Every person elected a Fellow of the Academy shall, before his admission, subscribe the Obligation in the following words:

I, the undersigned, do hereby engage that I will endeavour to promote the interest and welfare of the Indian National Science Academy and observe its Rules and Regulations, so long as I shall continue a Fellow thereof.

(Signed)

ELECTION OF FOREIGN FELLOWS

15. The procedure of electing Foreign Fellows shall be the same as for the election of Fellows but the number shall be limited to *eight* in the first year of the Academy and *four* in each successive year, and beginning from the year 1974 the number shall be limited to *eight* in each successive year.

PRIVILEGES OF FELLOWS

16. Fellows shall be entitled to the following rights and privileges:

(*a*) To be present and vote at all General Meetings.

(*b*) To propose and recommend under Rule 7(*c*) candidates for Fellowship.

(*c*) To introduce visitors at the General Meetings of the Academy.

(*d*) To have personal access to the library of the Academy.

(*e*) To take out books, plates, drawings, manuscripts, etc., from the library, subject to such Regulations as may be prescribed by the Council.

(*f*) To receive *gratis* copies of the Proceedings and Monographs of the Academy issued during the continuance of their Fellowship, and of such other publications as the Council may decide from time to time and subject to the discretion of the Council, to purchase, at a reduced price, any of the Academy's publications.

(*g*) To fill any office in the Academy on being duly elected thereto, subject, however, to the proviso that any Fellow appointed to any office in the Academy to which a salary or emolument is attached shall lose, for the time being, the privilege of voting.

(*h*) To offer papers and communications to be read before the meetings of the Academy.

17. Fellows living outside the territorial limits of India shall be entitled to the privileges contained in Clauses (*a*), (*b*), (*c*), (*d*), (*f*) and (*h*) of the preceding Rule, and to serve on any committee appointed by the Council save that they shall not be entitled to vote except on such Committee.

18. Foreign Fellows shall be entitled to the privileges contained in Clauses (*a*), (*d*), (*f*) and (*h*) of Rule 16 and to serve on any Committee appointed by the Council save that they shall not be entitled to vote except on such Committee.

SUBSCRIPTIONS OF FELLOWS

19. The subscription of Fellows shall be Rs. 36 per year. Fellows who became Non-Resident before 1950 will continue to pay Rs. 16 per annum according to old Rules. In the case of a Fellow, who is a member of some other Science Academy or Academies in India working in co-operation with the INSA in accordance with the regulation for co-operating Academies, a reduction of Rs. 12 annually, shall be allowed on the full subscription of Rs. 36 on the evidence of a certificate from a co-operating Academy, provided that in subsequent years, he himself certifies that he continues to be a member of a co-operating Academy.

Such Fellows as have already paid their subscription for 30 years will be exempted from further payment of subscription.

Fellows above the age of 65 may be exempted from the payment of the annual INSA subscription.

20. Subscription shall be due on the first day of each calendar year.

21. The full subscription of the year in which a person is elected a Fellow shall be due from him on election, unless such election has taken place after the 30th June in which case only half the annual subscription shall be due in respect of that year.

22. No Fellow whose subscription is in arrears for six months shall be permitted to enjoy the rights or exercise the privileges of a Fellow, until he has paid up all arrears due from him.

23. Any Fellow of the Academy may, after he has paid his admission fee, compound for the payment of all future subscriptions by the payment of Rs. 450 either in a single sum or by instalments within one calendar year.

24. No admission fees or subscriptions shall be due from Foreign Fellows.

25. Any Fellow already belonging to the Academy may at any time compound for all future subscriptions by the payment of the

above compound fee, less Rs.15 for each full annual subscription of Rs.36 (or Rs.24 on being a member of a co-operating Academy or Academies) he may have already paid, provided always that under no circumstances shall the compounding fee be reduced below Rs.150.

Any Fellow who became a Non-Resident Fellow prior to 1950 may, however, compound for the payment of all future subscriptions as a Non-Resident Fellow by the payment of Rs. 200 less Rs. 7 for each full annual subscription of Rs. 36 (or Rs. 24 in case he was a member of a co-operating Academy or Academies) he may have already paid as a Resident Fellow and for each annual subscription of Rs. 16 he may have already paid as a Non-Resident Fellow, provided always that under no circumstances shall the compounding fee be reduced below Rs. 70.

CESSATION OF FELLOWSHIP

26. Any Fellow may withdraw from the Academy by signifying his wish to do so, by the letter addressed to the Secretaries.

27. A letter of withdrawal may be cancelled by the Secretaries at the request of the sender within six months of its receipt on payment of all sums for which the Fellow would have been liable had his Fellowship not been interrupted, and he shall thereupon recover all rights of Fellowship without the form of re-election. The Council shall have power to waive in special cases the limit of six months specified above.

28. Any Fellow who shall cease to be a Fellow of the Academy, either by voluntary withdrawal or by forfeiture of his fellowship, under Rules 30 and 33, shall continue liable to the payment of the annual subscription until he shall have discharged all sums (if any) due by him to the Academy and shall have returned all books or other property (if any) borrowed by him from the Academy, or shall have made full compensation for the same if lost, damaged, or not forthcoming.

29. Fellows who have withdrawn from the Academy shall be eligible for re-election, and if re-elected, only half the usual admission fee shall be due from them.

30. When any Fellow has omitted to pay the subscription of two successive years, the Council shall cause a registered letter to be sent to him, directed to his last known address informing him of the amount of the sums due by him and that, unless they are paid within six months from the receipt of such letter, his name shall be struck off the list of Fellows, as provided in the next Rule

31. If he omits to pay the amount within the time so limited, his name shall be suspended as a defaulter at any General Meeting, and unless the amount be paid in the meantime, shall remain so suspended at the Academy's Office till the next General Meeting when the Chairman shall declare such Fellow to be removed from the Academy for non-payment. This act shall be notified in the Annual Report of the Academy.

32. A person who has ceased to be a Fellow under the operation of Rules 30 and 31 may again be made a Fellow by a resolution of a General Meeting, on a payment of all arrears and such further subscriptions as he would have been chargeable with under these Rules if his Fellowship had continued, but he shall not be eligible for election under Rule 7.

33. If any Fellow of the Academy shall willfully disobey Rules or Orders of the Academy or Council, or shall commit willful breach of order at any of the General Meetings, or having unwittingly committed shall persist in any disobedience or breach of order, after being admonished by the President, or if for any other reasons it shall appear to the Council that the name of a Fellow should not remain on the rolls, he shall be liable to be removed from the Academy. Whenever there shall appear cause as aforesaid, for the removal of a Fellow from the Academy, if a majority of the Council shall, after due deliberation, determine by ballot, to propose to the Academy the removal of the said Fellow, the President shall, at any General Meeting of the Academy, announce from that Chair such determination of the Council, and at the Meeting after that at which the said announcement has been made, the proposition shall be submitted to ballot. If *three-fourth* of the Fellows present and voting at such General Meeting vote for the removal of such Fellow, he shall be removed from the Academy.

34. Fellows removed under the operation of Rule 33 shall not be eligible for re-election until the expiration of one year from the date of such removal.

THE COUNCIL AND OFFICERS

35. The election of Officers and other Members of the Council shall take place at the Annual General Meeting of the Academy.

36. The Council shall prepare in accordance with the following procedure, a list of the names of those persons whom they recommend for election as President, Vice-Presidents, Secretaries, Foreign Secretary, Treasurer, Editors of Publications, Additional Secretaries and other Members of the Council for the ensuing year:

(i) The Council shall determine, at the Meeting to be held in May, the vacancies that will occur among the Officers and other Members of the Council during the ensuing year as per Rules 37 and 38.

(ii) The list of the Council of the current and two preceding years indicating the vacancies that will be occurring in the ensuing year, shall be circulated in May to all Fellows in goods standing (whose subscriptions are not in arrears for more than six months), inviting suggestions regarding the filling up of vacancies to reach the office by a date to be specified by the Council.

(iii) The suggestions received shall be circulated to the Members of the Council by a date prescribed by the Council for expression of their views, and considered the Meeting of the Council to be held in August when final nominations shall be made out of the names suggested. While nominations are discussed, members of the Council being considered for a position as an Office-Bearer of the Council shall not participate in the selection procedures for the respective position.

(iv) The list of nominations shall be printed and a copy sent by post as a voting paper to each Fellow of the Academy at least one month before the date of Annual General

Meeting of the Academy in October. These voting lists shall have a blank column for such alterations as any Fellow may wish to make. These voting papers shall be returned to the Secretaries at least a week before the date fixed for the Annual General Meeting.

(v) The manner of election shall be as follows:

(*a*) Two scrutineers shall be appointed by the Chairman with the approbation of the majority of the Fellows present.

(*b*) The scrutineers shall count the voting papers, and shall report to the Chairman the names of those having a majority of votes for election as the Officers and other Members of the Council of the Academy, and these names shall be announced from the Chair as duly elected.

(*c*) If any voting paper contains more than the proper number of names, or includes the name of a candidate who is not eligible, it shall be void for uncertainty, and shall not be regarded by the scrutineers.

(*d*) If there be an equal number of votes for any two or more candidates, the scrutineers shall announce the fact, and the Chairman shall proceed to decide by lot which candidate shall have the preference.

(vi) The new Council shall assume the office after the Anniversary General Meeting.

37 (*a*) No person shall hold the office of the President for more than two consecutive years. Immediately after vacating office of President he shall be an *ex-Officio* Additional Member of the Council for two years. After retiring as an Additional Member of the Council, he shall not be eligible for election to any membership including any office of the Council until after the expiry of three years. No Vice-President shall be eligible to hold office as such for more than two years and no person on retirement from the Office of the Vice-President shall be eligible for re-election to any membership (including any office) of the Council

until after the expiry of two years except the office of the President.

(*b*) The Secretaries, the Foreign Secretary, the Treasurer and the Editors of Publications shall be eligible to hold office for a period of four consecutive years and shall not be eligible for re-election to any membership including any Office of the Council until after the expiry of two years except the Office of the President.

38. Each year, six members of the Council not being the President, Vice-Presidents, Treasurer, Editors of Publications or Secretaries shall retire from the Council and shall not be eligible for re-election to the membership of the Council until after the lapse of three years from the date of their retirement. The retirement shall be decided by seniority, except in so far as vacancies have not otherwise occurred. In the event of equal seniority, the seniority shall be decided by lot. Interim vacancies shall be filled by the Council only for the unexpired period.

39. In the event of a vacancy occurring during the year in the Office of the President, the Vice-Presidents, the Secretary, the Treasurer or the Member of the Council, it shall be competent to the remaining Members of the Council to fill-up such vacancy, subject to its confirmation by the next subsequent General Meeting. The Council may also, for specified reasons and subject to the same confirmation, elect Additional Members as occasion may require within the sanctioned maximum number.

40. The Council, as constituted in accordance with these Rules, shall continue in office notwithstanding that their period of office may have, in fact, expired, until their successors have been duly appointed.

41 In the absence of the President from whatever cause, his duties will devolve in the following order of seniority: Vice-Presidents, and the Members of the Council. In the case of the sudden vacation of office in the interval between two Meetings of the Council by the Treasurer, or any one of the Secretaries, the President shall designate one of the Members of the Council to take his place and exercise his functions, until the next Meeting of the Council. In case of the absence of both the Secretaries from a

Meeting of the Council or of the Academy the Chairman shall designate another Member of the Council to take his place and exercise his functions during the Meeting or until the next Meeting of the Council.

42. In the absence from the Headquarters of both the Secretaries or the Treasurer, the President shall designate one of the Members of the Council to continue his functions until his return to headquarters, subject to the confirmation of the Council at the first opportunity. Such members of the Council shall be entitled to sign papers for the Secretary or the Treasurer respectively.

43. The powers and duties of the Council shall be as follows:

(*a*) To manage the affairs of the Academy, and for such purpose to make such Regulations as may to them appear conducive to the good administration of the Academy and the attainment of the aims and objects of its foundation, provided always that such Regulations be not inconsistent with anything contained in these Rules, that they be reported for the information of the next General Meeting and they be subject to redecision or alteration by the Council, or by any General Meeting.

(*b*) To consider all communications to the Academy and in the case of those to be submitted to a General Meeting, to determine the order and manner of such submission.

(*c*) To superintend and direct the publication of the periodicals or other works published by the Academy.

(*d*) Subject to confirmation by the next subsequent General Meeting, to appoint as many salaried officers, clerks or servants, as they deem necessary, to define their duties, allowances, salaries, gratuities and privileges; and to suspend or dismiss them, or dispense with their services as occasion may require.

(*e*) To exchange for other property, or otherwise dispose of in such a manner as may, in their opinion, best conduce to advance the objects and interests of the Academy, any duplicate books, maps, specimens etc., belonging to the Academy.

(*f*) To prepare and submit to the Annual General Meeting a report on the general concerns of the Academy. A copy of this report along with the audited statement of accounts for the year ending 31st March and estimated income and expenditure for the succeeding year shall be placed on the table for information of the Fellows present and shall form a part of the Year Book to be made available to the Fellows in succeeding January.

(*g*) In conformity with provisions of the Registration Act No. XXI of 1860, Sections 9 and 10, after the Academy has been registered, the Council shall be empowered, subject to the sanction of a General Meeting to take legal proceedings under the Act for the recovery of any sums due by Fellows who, after receiving due notice of their liabilities, shall refuse or fail to discharge them.

44. The powers and duties of the President shall be as follows:

(*a*) To preside at all Meetings of the Academy and of the Council, and to regulate the proceedings at such Meetings.

(*b*) To ensure due effect being given to these Rules, and to the Regulations, made by the Council under Rule 43, Clause (*a*).

(*c*) To be *ex-officio* Member of all Committees appointed by the Council.

(*d*) In the case of doubt as to the interpretation of any of these Rules, to decide on the interpretation In such case the President's interpretation shall hold until the next Meeting of the Council, when the interpretation of the Rule should be discussed finally determined.

45. The duties of the Secretaries, subject to such delegation of duties as may be made in accordance with Rule 48, shall both as follows:

(*a*) To conduct the correspondence of the Academy and of the Council, and to sign all letters and papers emanating from the Academy, except in so far as another provision is made in these Rules.

(*b*) To attend the Meeting of the Academy and of the Council to take minutes of the proceedings of such Meetings during the progress, and, at the commencement of every such Meeting, to read aloud the minutes of the previous Meeting.

(*c*) At the General Meetings, to announce the presents made to the Academy since their last Meeting, to read the names of candidates for Fellowship, the original papers communicated, and the letters addressed to the Academy.

(*d*) To prepare for submission to the Annual General Meeting a list of Fellows, corrected up to date.

(*e*) To enter or cause to be entered in the Minute-Books, all the proceedings of the Academy and the Council before the following Meeting, and to see that all letters and papers and documents of every kind connected with the business of the Academy are properly filed and preserved.

(*f*) To edit the publications of the Academy unless separate Editors be appointed by the Council.

(*g*) To exercise general supervision over the servants and affairs of the Academy, and to assist in carrying out the Rules, and the Regulations and Orders made by the Council under Rule 43, Clause (*a*).

(*h*) To be *ex-officio* Members of the Committees appointed by the Council from time to time, except Sectional Committees and other Committees as appointed under Rule 69.

46. The duty of the Secretary for foreign correspondence shall be to conduct correspondence with foreign countries, relating to the business of the Academy, to return thanks for presents from foreigners made to the Academy, and to forward to persons elected Foreign Fellows, the Diploma certifying their election to the Academy.

47. The Additional Secretaries, if any and when more than one, may by mutual agreement among themselves and with the Secretaries, and subject to the general control of the Council, make such partition of their duties as they may find most

convenient. The arrangements made by them and any alterations in the same, shall be communicated to the Meeting of the Council which shall take place next after such arrangement or alteration.

48. Should the Academy find it desirable to entertain the services of a paid Executive Secretary, portion of the duties of the Secretaries outlined in Rule 45 may be delegated to him as the Council may decide.

49. The Treasurer shall receive and hold for the use of the Academy, subject to Rule 66, all money paid to the Academy; he shall disburse all sums due from the Academy and shall keep exact accounts of all such receipts and payments. The Treasurer shall be *ex-officio* Member of all the Committees appointed by the Council from time to time, except Sectional Committees and other Committees as appointed under Rule 60.

50. At the expiration of every half year, the Treasurer shall prepare a list of the names of those Fellows who may be in arrears of their subscriptions for six or more months, and shall submit it for the orders of the Council at the next Council Meeting.

51. The Editor or Editors shall be responsible for the preparation and printing of the publications of the Academy and shall have the right of direct correspondence with the authors and with the press.

MEETINGS OF THE ACADEMY

52. General Meetings of the Academy shall be of four kinds' viz :

(*i*) Ordinary

(*ii*) Annual

(*iii*) Anniversary

(*iv*) Extraordinary

53. The following rules shall be applicable to all General Meetings of the Academy :

(*a*) *Ten* Fellows shall constitute a *quorum*.

(*b*) The President, or in his absence, one of the Vice-Presidents, shall take the Chair; in their absence the Senior Member of the Council present shall take the Chair. If neither the President, nor one of the Vice-Presidents nor a Member of the Council be present, on the expiration of fifteen minutes after the hour fixed for the Meeting, the Fellows present shall proceed to elect a Chairman.

(*c*) The business of each Meeting shall be proceeded within the order hereinafter prescribed in Rules 55, 56 and 57, provided always, that, on written notice being given to the President or one of the Secretaries, not less than 48 hours before the hours of Meeting, a motion for the immediate transaction of urgent business may be made; and if such motion be seconded and carried, this Rule shall be suspended.

(*d*) With the exception mentioned in the last Clause, notice of motion on any matter of importance shall be given at the General Meeting preceding that at which the subject is to be disposed of or by letter not less than one month before the General Meeting at which the subject is to be disposed of, in order that Fellows who take an interest in the question may have an opportunity of informing themselves regarding it and expressing their assent or dissent; and no motion of which notice has not been given shall be carried at the Meeting at which it is proposed, if the President or Chairman of the Meeting rules that it should be postponed.

(*e*) All motions and amendments except those emanating from the Council shall require to be seconded; otherwise they cannot be put. Amendments must be in writing, unless executed by the Chairman. Not more than a single amendment to the original motion shall be laid before the Meeting at one time. When any such amendment has been negatived or has been allowed to take place of the original motion, other amendments involving fresh points may be proposed.

(*f*) Each Fellow present is entitled to speak once and once only, to each substantive motion and to each amendment. Nothing in this Rule shall be construed to prevent any Fellow from addressing the Chairman on a point of order, or to prevent the mover of an original motion with the permission of the Meeting, from speaking a second time by way of explanation or reply.

(*g*) The usual method of voting shall be by show of hands; provided always that the votes on any particular subject may be taken by ballot on a motion to that effect duly carried; and, in the cases specially provided for by these Rules, the votes shall be so taken.

(*h*) The Chairman's decision on the show of hands shall be final unless a division be called for. It shall be competent to any Fellow present to call for a division.

(*i*) The Chairman shall not vote with the rest of the Meeting but when the votes for and against are equal he shall have a casting vote.

(*j*) Any Fellow shall have the right of recording his protest, together with the reasons for the same, against the decision of the majority upon any question, provided that such protest be forwarded in writing to one of the Secretaries within two weeks from the date of the Meeting at which the decision protested against was arrived at.

54. The General Meeting shall be held at such times and in such places as the Council may decide, so that the total number of General Meetings held during a calendar year is not less than *four*, of which *one* should be held at the city selected for the meetings of the Indian Science Congress Association for that year and during or close to the session; this meeting shall be called the Anniversary General Meeting. One of the Meetings held during the year shall be termed the Annual General Meeting, and others, the Ordinary General Meetings.

55. The order of business at such meetings shall be as follows :

(*a*) The minutes of the last Meetings shall be read and confirmed after correction, if necessary, and signed by the Chairman.

(*b*) Fellows present who have not signed the Obligation-Book shall do so and shall in addition be presented to the Chairman in accordance with the provisions of Rule 13.

(*c*) The presents made to the Academy since their last Meeting shall be announced and exhibited.

(*d*) Such business as is necessary in connection with the election of Fellows according to the Regulations framed by the Council shall be transacted.

(*e*) Notice of intended motions shall be given.

(*f*) Motions of which notice was given at the preceding Meeting or by post in accordance with Rule 53, Clause (*d*) shall be disposed of, save as provided Clause (*g*) of this Rule and in Clauses (*c*) and (*d*) of Rule 53.

(*g*) Matters of current business and routine shall be disposed of. If any question arises as to whether any particular question is one of current business and routine, it shall be decided by the Chairman.

(*h*) Reports and communications from the Council shall be submitted for consideration.

(*i*) Papers and communications received by the Academy shall be read in the order prescribed by the Council under Rule 43 (*b*).

(*j*) The Chairman shall announce the names of new Fellows and Foreign Fellows, if any, elected at the Meeting and invite those persons to complete formalities of Rule 13.

(*k*) The chairman shall have the power, when he considers that Meeting has been unduly prolonged, to order any uncompleted business, except that provided for in (*j*) to stand over the next Meeting.

56. The Annual General Meeting of the Academy shall be held under the following Rules and for the transaction of the following business :

(*a*) The Meeting shall be held at the Headquarters of the Academy on such date as the Council may prescribe. If a *quorum* be not present, the meeting shall stand adjourned until a date to be decided by the Chairman not more than *two weeks* later.

(*b*) Notice of the Meeting, of the hour and the date at which it is to be held, and the place of Meeting, and of the business to be transacted thereat, shall be given to Fellows not less than *two weeks* before the date of the Meeting.

(*c*) The business to be transacted at the meeting shall be:

(*i*) To hear the Annual Report prepared by the Council in accordance with the provision of Rule 43 Clause (*f*);

(*ii*) To hear the Presidential remarks reviewing the work of the Academy;

(*iii*) To transact other business of which notice has been given as provided for in Clause (*b*);

(*iv*) To announce the Officers and other Members of the Council for the ensuing year as provided in Rule 36.

(*v*) To announce Fellows unless the Council decides that this can be more conveniently done at a Meeting of the Council or at an Ordinary General Meeting.

57. The Anniversary General Meeting of the Academy shall be held under the following Rules and for the transaction of the following business :

(*a*) The Meeting shall ordinarily be held in January every year at the city selected for the Meeting of the Indian Science Congress Association and during or close to the session thereof. If a *quorum* be not present, the Meeting shall stand adjourned until a date to be decided by the Chairman not more than a *week* later.

(*b*) Notice of the Meeting, of the hour and the date on which it is to be held, and the place of Meeting and of the business to be transacted thereat, shall be given to Fellows not less than *two weeks* before the date of the Meeting

(*c*) The business to be transacted at the Meeting shall be: (*i*) To hear the Presidential Address; (*ii*) To transact other business of which notice has been given as provided in Clause (*b*).

58. The following Rules shall be applicable to Extraordinary General Meetings:

(*a*) Such Meetings may be convened by a majority of the Council, and shall be convened by the President, when called on to do so by a requisition signed by not less than forty Fellows and stating the special business for which it is desirable that an Extraordinary General Meeting should be convened.

(*b*) Notice of the day and hour of the meeting, and of the special business to be transacted thereat, shall be given to Fellows within one month of receiving the request for the Extraordinary Meeting, and before one month of the date of the Meeting, provided that, if the business be very urgent, it should be competent to the Council to substitute any earlier notice than that of one month; but no business of the nature specified in Rule 63, Clause (*c*) shall be deemed urgent within the meaning of this Clause.

(*c*) No other business than that included in the notice shall be transacted at such Meeting, nor shall any stranger be permitted to be present thereat.

MEETINGS OF THE COUNCIL AND OF COMMITTEES APPOINTED BY THE COUNCIL

59. The following Rules shall be applicable to Meetings of the Council:

(*a*) The Council shall meet at such times as may be deemed advisable, and may make such Regulations not inconsistent with these Rules as they may think proper for the summoning and holding of the Meetings of the Council and for the transaction of business at such Meetings.

(*b*) The President may himself also summon a Special Meeting of the Council giving notice to all other Members.

(*c*) Ten Members shall from a *quorum*, for the Statutory Meeting of the Council. No *quorum* is needed for Non-Statutory Meeting of the Council.

(*d*) The President or in his absence, one of the Vice-Presidents shall take the Chair. If neither the President, nor one of the Vice-Presidents be present within fifteen minutes after the hour appointed for the meeting, the Fellows present shall elect a Chairman.

(*e*) The ordinary method of voting shall be by show of hands, but the votes shall be taken by ballot on motion to this effect being duly carried, or when the Rules provide for such method of voting.

(*f*) The Chairman shall be entitled to vote with the other Fellows, and when the votes are equal, he shall have a second and casting vote.

(*g*) The voting on any question except when it be one of adjournment, shall, on the demand of any Fellow present be postponed to the next ensuing Meeting provided it has the concurrence of the majority of the Council present.

(*h*) Minutes of the proceedings of every Meeting of the Council shall be taken during their progress by one of the Secretaries, or in the case of his absence, by some Fellow present whom the Chairman shall appoint for the occasion. The Minutes shall afterwards be circulated to the Fellows present at the Meeting, for the purpose of ascertaining their correctness, and then be entered in a Minute-Book and read at the next Meeting of the Council and signed by the Chairman.

(*i*) A copy of the Minutes of each Meeting of the Council shall be sent to all Members of the Council resident in India.

60. The Council may elect, from among the General Body of Fellows, Committees for the consideration of special subjects.

They may also appoint Foreign Fellows who are competent and well-versed in the subjects to be referred to these Committees, to be Members of such Committees.

61. Committees shall cause minutes to be taken of their proceedings. They shall report to the Council on all matters referred to them, producing such minutes if called for.

62. Committees shall appoint their own Chairman and Secretary. Their duties, etc., in other respects may be defined by the Council who may also dissolve such Committees when they think proper.

VOTES OF FELLOWS

63. The votes of Fellows shall be taken by voting papers (transmitted to them by the Secretaries) in any of the following cases :

(*a*) When the Council at their discretion consider it for the interests of the Academy that an appeal should be made from the decision of a General Meeting to the whole body of Fellows.

(*b*) When *ten* or more Fellows sign a requisition, calling upon the President to make such an appeal.

(*c*) When any proposal is made respecting expenditure of a large amount, changes of organization, amendment or alteration of the Rules, or generally, when any question arises which, in the opinion of the Council, should be referred to the whole body of Fellows.

64. Before circulating any question coming under Rule 63 for the votes of the General Body of Fellows of the Academy, the Council shall cause to be sent to every Fellows at least *two weeks* before the General Meeting at which such question is to be proposed, a printed circular in which shall be setforth the nature of the proposal and the reason for it, in order, that it may be duly discussed at such General Meeting. A statement of any objections that may be raised at the Meeting against the proposal shall be circulated with the voting papers.

65. Any question referred to the votes of the whole body of Fellows shall be brought before the General Meeting after a period of *thirty days* from the issue of the voting papers for the return of votes. The Chairman shall proceed to examine the votes and report the result.

FUNDS AND ACCOUNTS

66. (*a*) The accounts and vouchers of the receipt and expenditure of the Academy shall be subjected to the examination of the Standing Finance Committee which shall include two representatives of the Government of India at such intervals as the Council may prescribe, and shall be subject to the annual audit. Separate accounts shall be kept of all funds administered by the Academy on behalf of Government. The annual Statement of Accounts shall, after professional audit, be printed in the Report of the Academy.

(*b*) All financial matters of the Academy including matters affecting the quantum of Government grant and those dealing with the conditions of service, recruitment, promotion, etc., of the Staff of the Academy shall be considered by the Finance Committee before they are placed in the Council for discussion. No such matter shall be considered by the Council unless it has first been considered by its Finance Committee.

67. All sums received from the Fellows as Compounding Fees shall be regularly invested by the Treasurer as soon as possible after the receipt thereof and only the interest accruing therefrom shall be considered available for the general expenditure of the Academy.

68. All securities and money, the property of the Academy shall be lodged for safe custody in the State Bank of India.

69. The Council shall be competent to decide the limit of amounts in respect of cheques to be signed by the Accounts Officer and the Executive Secretary and by the Executive Secretary and the Treasurer. In the absence from the Headquarters of either the Accounts Officer or the Executive Secretary or

both, the President shall designate any one or two of the other paid officers of the Academy, as the case may be, to sign the cheques. The action shall be reported to the Council at the first opportunitiy.*

MISCELLANEOUS

70. No person appointed to any office in the Academy to which a salary or any emolument, other than a conveyance allowance, is attached shall have the privilege of voting. If any Fellow be appointed to any such office, he shall not be entitled to vote at the meeting of the Academy as long as he continues to hold it but shall not be deprived of his other privileges of Fellowship.

71. There shall be kept such record of the proceedings of the Academy, of its General Meetings and of the Meetings of the Council, as shall be, from time to time, prescribed by the Council. All Fellows shall be entitled to inspect such records.

72. All letters, notices, minutes of Fellows, and other documents connected with the business of the Academy shall be filed in the order of their dates, and shall be preserved.

73. Authors of the papers published in the Academy publications shall be entitled to receive *gratis*, 50 copies of such papers, unless the Council otherwise prescribes.

74. When the introduction of any new Rule, or the alteration or repeal of any existing Rule, is recommended by the Council, or proposed by ten or more Fellows, the Council shall cause to be sent to every Fellow of the Academy entitled to vote,

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*The Council at its meeting held on 7-8, May 1982 decided as follows :

The Council decided the limit of Rs. 10,000/- as the amount for which cheques could be signed by the Executive Secretary and the Accounts Officer. Cheque of amounts in excess of this will be signed by the Executive Secretary and the Treasurer.

The Executive Secretary was authorised to delegate signing power of cheques of such amounts as he may decide to other paid officers of the Academy.

a statement of the proposed changes and the reasons for them, with a view to the votes of the General Body of Fellows being taken as directed in Rule 65. Provided always that no change in the Rule shall be valid unless a majority of the *two-third* of the Fellows who have voted shall be in favour of the proposed changes.

75. These Rules take effect from 22 October 1964. All previous Rules are hereby rescinded as from that date.

REGULATIONS OF INDIAN NATIONAL SCIENCE ACADEMY

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(A) REGULATIONS REGARDING THE ELECTION OF FELLOWS

1. *Notice of election of Fellows and supply of nomination forms:* A circular letter drawing attention of the Fellows of the Academy, to the last date on which nominations for Fellowship should reach the Office of the Indian National Science Academy, New Delhi, shall be issued in the *first week* of September every year.

2. *Certificate of nomination:* Every nominee, shall be proposed and recommended by a certificate in writing signed by four Fellows in good standing (i.e. who have paid their subscription for the current year). Of these, at least three shall certify from personal

knowledge of the scientific attainments of the candidate. Either of the two Secretaries shall have the power to sign a certificate on behalf of a Fellow competent to sign for the particular discipline but not resident in India, on receiving a written request from him.

For the Sectional Committees/Council to make an objective evaluation of the candidate's scientific attainments, the proposer should ensure critical information required in the form is complete.

The nomination paper shall specify the name, date of birth, field of specialisation, designation, address (both official and residential), academic and professional attainments including the list of publications of the nominee in a form prescribed by the Academy and shall include a brief statement regarding the most significant research achievements of the nominee and a more detailed critical analysis highlighting the most important research contributions of the nominee.

An up-to-date list of publications of the nominee and a set of reprints (or photo-copies) of the most significant publications should be sent with the nomination paper. The nominee shall under no circumstances be asked to send any information/particulars to the Academy direct.

The proposer shall send the nomination paper to such other Fellows for their support who, in his opinion, will second and support the nominee. The nomination paper should be transmitted by one Fellow to another direct. After the required number of supporters have affixed their signatures as also given their own remarks, about the nominee's suitability the nomination paper shall be sent by *Registered post* or may be handed over personally by a Fellow of the Academy to the Executive Secretary, Indian National Science Academy, Bahadur Shah Zafar Marg, New Delhi 110002 during working hours so as to reach him not later than 15th November. In case 15th November happens to be a Sunday, or a closed day, the next working day will be the *last* valid date for receipt of nominations in the Academy. The nomination paper along with reprints and other documents on being received at the Office of the Executive Secretary, Indian National Science Academy, Bahadur Shah Zafar Marg, New Delhi 110002 shall be recorded with the date of receipt in a book to be kept for the purpose, and read at the next meeting of the Council.

3. All communications in respect of the nomination shall be carried on with the proposer and/or seconder.

4. *Names of nominees to be listed in December/January:* At the meeting of the Council of the Academy towards the end of December or beginning of January a list of all persons proposed on or before 15th November and subsequent to the last announcement of the names of nominees, and also the names of those persons whose nomination papers are valid in accordance with the provision of Regulation 15 shall be drawn up classifying the persons according to the subjects without any reference to the dates of their nomination. The Council at its meeting shall consider and send the list of eligible nominees to the concerned Sectional Committees for expression of opinion on the list of nominees referred to them; provided, however, that nomination papers of any person for election on the basis of his work in any other branch of Natural Science not coming within the purview of any of the existing Sectional Committees, shall be considered by the Council at the time of selecting the persons for Fellowship without being referred to any Sectional Committee for its recommendations.

5. *List of nominees to be printed:* Not later than 1 March, a list arranged in alphabetical order together with brief statements regarding the most significant research achievements of the nominees, names of the Fellows by whom each person is proposed, seconded and supported, and the year in which the nomination was considered for the first time shall be printed and a copy shall immediately thereafter be sent to every Fellow. This book shall contain the superscription '*Confidential for use of Fellows of the Academy only. The book is to be destroyed or returned to the Academy by 1 May, this year*'. The envelope in which this book of nominations is posted to the Fellows should be marked '*Confidential*'.

Fellows may make such observations/comments as they may wish to, about the suitability or otherwise as regards the candidates included in the list of nomination and send them to the Convener of the concerned Sectional Committee. The observations/comments received from the Fellows shall be placed before the Sectional Committees, and later before the Council.

The Conveners shall write by 1 March to all Fellows whose specialisation belongs to their Committee requesting them to send in additional information about the scientific attainments of the candidates under consideration for election to Fellowship.

6. *Selection by Sectional Committees:* The Executive Secretary shall circulate by 1 March to the Members of the Sectional Committees the list of persons proposed for election from the respective Sections, with a statement showing the research work (as given in the nomination papers) of the individual nominee and shall request the members to send their recommendations alongwith reasons for the same to the Conveners of the respective Sectional Committees at least a *fortnight* before the meeting of the Sectional Committees.

The members shall be requested to give in alphabetical order a statement in about 50 words of the summary of the scientific contributions of each of the persons recommended.

The Executive Secretary shall call meetings of the Sectional Committees in April, on the dates as may be decided by the Council in the calendar of meetings, to consider these recommendations.

The report shall setforth the list of persons recommended for election strictly in order of priority; it shall also bring out clearly for each recommended nominee the reason for the Committee's recommendation by highlighting the importance of the scientific contributions of the concerned nominee.

In case the attendance at any of the Sectional Committee is not full, the members attending it shall make a full report of their findings and send it to the members absent for their observation by a specified date. If comments of these members are not received by that date, their concurrence of the recommendations of the Committee concerned shall be presumed.

Within a fortnight from the date of the meeting of the Sectional Committees, the Conveners shall forward to the Executive Secretary the report of their committees for consideration by the Council.

7. *Circulation of recommendations of Sectional Committees to Council Members:* The recommendations of the Sectional Committees shall be circulated to all Members of the Council at least

one month before the date of the Meeting of the Council to be held in August and comments on the recommended list, if any, invited from members, so as to reach the Executive Secretary at least fifteen days before the date of the meeting of the council in August. While forwarding the recommendations of the Sectional Committees to the Members of the Council, the following information shall also be circulated :

(i) Names of nominees considered by different Sectional Committees;

(ii) Names of Members of the Sectional Committees;

(iii) Copies of all letters from the Members of the Sectional Committees containing their original recommendations;

(iv) Copies of comments of absentee Members on the recommendations of the Sectional Committees.

8. *Selection by Council:* At the meeting of the Council to be held in August the Council shall devote one full day entirely and exclusive for the purpose of considering such recommendations and shall then select by ballot a number not exceeding thirty to be recommended to the Fellows of the Academy for election but no such selection by the Council shall be valid unless nine members at least be present and vote; in the event of a tie, the Chairman shall have a second and casting vote.

9. It shall not be obligatory for the Council to recommend a certain fixed number of persons for election to Fellowship from each of the Sections. The Council shall be free to recommend a large number for any Section if there are more deserving persons in that Section and also not to recommend any, if, in the opinion of the Council, none is fit for election.

10. *Selected names to be communicated to Fellows:* Soon after selection by the Council in August, a circular letter shall be sent to every Fellow as a voting paper enclosing a printed list of the selected persons, with space for such alterations as any Fellow may determine to make in pursuance of Regulation 12.

11. *Date of election:* The election of Fellows not included in the class referred to in Regulation 6 shall take place at the October Statutory Meeting of the Council

12. *Election procedure:* Each Fellow shall forward to the Executive Secretary in voting paper mentioned in Regulation 10, having placed a cross against names of those he wishes to be elected, and having scored out the names of any persons for whom he does not vote and having substituted the name of any other person or persons contained in the printed list sent in pursuance of Regulation 5, if he so desires. No voting paper shall be valid if (*i*) it contains more names than the number accepted by the Council, (*ii*) it is signed, or (*iii*) it is not enclosed in a sealed envelope and forwarded to the Executive Secretary in an outer cover with a covering letter signed by the Fellows so as to reach the Executive Secretary, Indian National Science Academy, Bahadur Shah Zafar Marg, New Delhi 110002, by the 30th September.

13. At the Meeting of the Council to be held in October, two scruitineers shall be nominated by the President with the approbation of the members to assist the Secretaries in conducting the elections.

14. The scruitineers, after examining the voting papers, shall report to the President the number of votes received by each nominee. The President shall duly declare from the Chair the names of candidates who have been elected. In the case of a tie, the President shall have a casting vote. The result of election shall forthwith be notified to all the Fellows by post. This election, however, shall be effective from 1st January of the following year.

15. *Renewal of nominations:* Any nominee whose name shall have been printed in a previous list of nominees, but who shall not have been elected, shall, unless his proposer or seconder withdraws his name before 15th November immediately preceding an election, continue to be a nominee at the election; his name shall be placed in alphabetical order with those of the new nominees to be announced at the ensuing Statutory Meeting of the Council, provided always that the same certificate shall not be valid for more than five successive elections. In the case of a candidate's nomination becoming invalid for his reason, the office should draw in the first week of October the attention of the proposer to the fact that this candidature would be invalid unless re-nomination is received by 15th November.

Corrections of facts may be made upon the certificate after it has been sent, if initialled by the proposer and/or seconder, and marked unmistakably as new matter.

The re-nomination form shall be signed by the Proposer or in his absence by the Seconder.

16. *Special election:* In cases in which the Council is of opinion that in the interest of furthering the aims and objects of the Indian National Science Academy it is desirable that persons be elected Fellows of the Academy otherwise than as provided by Regulations 1 to 15 of these Regulations, the Council may recommend to the Academy for election of persons, who, in its opinion, either have rendered conspicuous service to the cause of science in India, or are such that their election would be of signal benefit to the Academy provided that not more than two persons shall be so recommended in any calendar year and also that if two persons be elected in any one year, there shall be no election in the following year. The persons to be so recommended shall be selected by the Council by ballot, provided always that no person shall be so recommended unless he obtains *two-thirds* of the votes of the Members of the Council present and voting, the total number of votes registered in his favour being not less than seven.

17. At the Ordinary General Meeting of the Academy, immediately following the Meeting of the Council at which the selection of persons to be elected under Regulation 16 is made, the person or persons nominated shall be proposed for election by means of a certificate prepared in accordance with Regulation 2, no distinction, however, being made between personal and general knowledge. Such certificate shall remain with the Academy until the day on which a ballot is taken upon it. The name of the person so proposed shall be posted to each Fellow for voting by a date given on the ballot paper. The result of the ballot shall be ascertained at the next meeting of the Council after the close of the ballot, following procedure of Regulations 12 to 14.

(B) REGULATIONS REGARDING THE ELECTION OF FOREIGN FELLOWS

1. A book shall be kept in which Fellows of the Academy may enter the names of those men of science whom they suggest as

Foreign Fellows; or if the Fellow be not resident at the Headquarters of the Academy, he may send his suggestions by post, and ask one of the Secretaries to enter the proposal on his behalf in the book. Each entry shall be signed by the proposer, or by one of the Secretaries on his behalf, and be accompanied by a statement of the principal grounds on which the suggestion is made, and shall be valid for three years only.

2. A list of the persons so entered shall be sent to each Member of the Council, together with notice of the meeting at which the list will be considered At the meeting, thus appointed, further entries may be made and the claims of those men of science whose names have been duly entered in the book shall be considered, and a selection of names shall be made, from among which the Council, at a subsequent meeting to be then appointed, may make nominations to the Academy. In making this selection, account shall be taken of expression of opinion received by post from Members of the Council absent from the meeting.

3. At the second meeting of the Council the selection of candidates to be so nominated for Fellowship up to the permissible number under Rules 15 shall be by ballot, but no candidate, who does not secure the votes of *two-thirds* of the Members of the Council present in favour of his nomination, shall be elected.

4. The names of the candidates so selected shall be circulated to every Fellow resident in India on a voting paper to be returned by a date prescribed. The Fellow shall vote placing a cross against the names of those he wishes to be elected.

5. The voting paper shall not be signed but enclosed in a sealed envelope, which shall be forwarded to one of the Secretaries in an outer cover with a covering letter signed by the Fellow so as to reach the Office of the Academy by the date prescribed. In the absence of a covering letter the voting paper shall be invalid.

6. At the first meeting of the Council to be held after the date prescribed, the Chairman shall appoint two scrutineers. The scrutineers, after having opened the voting papers with the Secretaries, shall report to the Chairman the number of votes

received by each candidate. The Chairman shall then announce from the Chair the names of candidates who have secured the votes of *two-thirds* of the Fellows voting and shall declare them as duly elected, and the result of the election shall be forthwith notified to all Fellows by post.

It shall be the aim of the Council to see that the nominations are distributed evently, as far as possible, in different branches of science.

(C) REGULATIONS REGARDING THE SECTIONAL COMMITTEES

1. The Council shall appoint, from among the Fellows of the Academy, Committees representing the several branches of Natural Knowledge and called 'Sectional Committees'. The members of each Committee shall be chosen with a view to secure, so far as is possible, a representation of the several sub-divisions of each branch of Natural Knowledge, and to obtain the assistance of Fellows who are specially qualified to advise the Council regarding particular parts of Natural Knowledge.

2. Each Sectional Committee shall advise the Council or any of the Officers upon matters referred to it by the Council or by any of the Officers, and otherwise shall make to the Council such suggestions as it may think desirable touching the branch or branches of knowledge which it represents such as : (*a*) in connection with communications received from Government on scientific matters of high policy, (*b*) subjects to be discussed at the Annual Meeting so that the Academy can play its part in national development and planning, (*c*) drawing up lists of persons suitable for scrutinizing papers submitted for publication indicating the branches which they are competent to deal with, (*d*) advising on the books and journals which should be added to the Academy's library, (*e*) suggesting original research problems of both fundamental and applied nature which the Academy should initiate in the national interest; it being understood that no Sectional Committee shall offer advice to the Council as to the selection of candidates for admission into the Academy as Fellows or Foreign Fellows unless the Council shall have asked for such advice.

3. The Council shall each year appoint a Member of each Committee to serve as Secretary and Convener of the Committee and to be the channel of communication between the Committee and the Council or Officers. There shall be no permanent Chairman, but a Chairman shall be elected at each Meeting. The Secretary shall be eligible to be elected Chairman.

4. *Sectional Committees* : The Sectional Committees shall be *Ten* in number and referred to by number and not by name. The allocation of subjects to Committee, which is only indicative but not exhaustive, shall be as follows :

SECTIONAL COMMITTEE 1

Mathematical Sciences

Applied Mathematics, Pure Mathematics and Statistics.

SECTIONAL COMMITTEE 2

Physics

Astronomy and Astrophysics, Physics of Materials, Space Physics, Sub-atomic, Atomic and Molecular Physics, and Theoretical Physics.

SECTIONAL COMMITTEE 3

Chemical Sciences

Analytical, Inorganic, Physical, and Theoretical Chemistry.

SECTIONAL COMMITTEE 4

Engineering & Technology

Applied Physics, Chemical Technology, Electronics & Telecommunication, Engineering & Engineering Sciences.

SECTIONAL COMMITTEE 5

Earth Sciences

Atmospheric Sciences, Geography, Geo-Sciences, and Oceanography.

SECTIONAL COMMITTEE 6

Plant Sciences

Structural, Developmental, Functional, Genetical, Ecological, Taxonomical, and Evolutionary aspects.

SECTIONAL COMMITTEE 7

Animal Sciences

Structural, Developmental, Functional, Genetical, Ecological, Behavioural, Taxonomical, and Evolutionary aspects.

SECTIONAL COMMITTEE 8

Medical Sciences (including Anthropology)

Anthropology, Basic & Clinical Medical Sciences.

SECTIONAL COMMITTEE 9

Biochemistry and Biophysics

Biochemistry, Biophysics, Molecular Biology, Microbiology, and Immunology.

SECTIONAL COMMITTEE 10

Agriculture, Animal Husbandry, Fisheries and Forestry.

The Council may constitute a Special Committee to consider cases of such nominees who do not specifically come under any of the above ten Sectional Committees, at the time of listing nominees in December/January under Regulation 4 of the Regulations regarding the election of Fellows.

5. Each Committee shall consist of *nine* Members, *four* Members shall constitute a *quorum*.

6. Members shall be retired by seniority, at the rate of *one-third* every year. Where necessary, retirement shall be determined by ballot. If a Sectional Committee Member is not able to attend the Meetings of Sectional Committees in a particular year, the President is authorized to appoint a suitable substitute in his place for that year. If any Sectional Committee Member does not attend two consecutive meetings without valid reasons, the Council shall appoint a new member in his place for the remaining period.

7. The retiring Members of the Committee shall each year vacate office on the 31st December, and shall not be eligible for election for the ensuing year.

8. Should, by reason of death or otherwise, a vacancy occur at any intermediate time, the Council shall appoint a person to fill the vacancy, and the retirement of the person so nominated shall be according to the Rules that would have applied to the Member whose place he fills provided that, if at the date of retirement the said person has not served more than one year, he shall be eligible for immediate reappointment.

9. The appointment of the Fellows to serve as new Members of the Committee shall be made by the Council in August and the Member, so appointed, shall enter office upon 1st January ensuing.

(D) REGULATIONS GOVERNING GRANT TO SCIENTIFIC SOCIETIES FOR PUBLICATION OF SCIENTIFIC JOURNALS

1. *General:* The Academy provides token grant to such Scientific Societies which are registered under the Societies Registration Act XXI of 1860 and are of all-India character to assit the scientific publications in India.

2. To assist in the review of applications from various Societies and to obtain expert advice on them, the Council of the Indian National Science Academy will set up a Grants Committee.

3. *Quantum of grant:* The quantum of assistance will be determined on the basis of:

(i) Contributions appearing in the Journal containing results of the original research;

(ii) The cost of publication of journals as shown in the audited statement of accounts for the previous year:

(iii) Availability of the funds sanctioned by the Government of India to INSA.

4. *Conditions governing the grant:* The Society to whom the grant is given will utilize the same for publication of its Journal during the year in which the grant has been sanctioned:

(i) The Societies which do not close their account ending 31st March could utilize the grant during their corresponding

financial year. In the event of their failure to do so, the Society shall be liable to refund the grant in such a manner as may be required by the INSA;

(ii) The Society shall send a utilization certificate of the grant along with the audited statement of account within six months to the INSA free of cost;

(iii) The Society shall send three copies of its publications to the INSA free of cost.

No grant will be sanctioned for expenditure of 'Capital' nature.

(E) REGULATIONS REGARDING THE PREPARATION OF PAPERS FOR PUBLICATIONS

Authors offering papers for publication in the *Proceedings* of the Academy are requested to conform to the following recommendations;

PROCEEDINGS, PART 'A' *(Bimonthly)*

The *Proceedings Part 'A'* of the Indian National Science Academy is an inter-disciplinary journal in Physical Sciences devoted to publication of papers embodying results of original research in any branch of Physical Sciences (except Mathematics).

Papers submitted for publication should be as brief as adequate presentation allows.

PROCEEDINGS, PART 'B' *(Bimonthly)*

The *Proceedings Part 'B'* of the Indian National Science Academy is an inter-disciplinary journal in Life Sciences devoted to publication of papers embodying results of original research in any branch of life sciences. The major emphasis of the journal will be on publication of studies especially those with inter-disciplinary implications relating to Physiology, Cell Biology, Cytogenetics, Genetics, Ecology, Biochemistry, Microbiology, Pathology, Endocrinology, Physiology of Reproduction, etc., relaing to plants and animals.

Papers concerned with descriptive anatomy will be published only if they involve principles of Zoo-geography and Evolution.

Note: Papers presented at the Academy's symposia, special Academy lectures relating to research and concepts fundamental to Physical Sciences and Life Sciences will also be published in the *Proceedings, Part 'A' and Part 'B' respectively.*

INDIAN JOURNAL OF PURE AND APPLIED MATHEMATICS (*Monthly*)

The Journal is devoted primarily to original research in Pure and Applied Mathematics.

General

Papers will be considered for publication on the clear understanding that they have not been, nor will be, submitted to another journal for publication.

Text

Manuscripts should be concise, and consistent in style and spelling (spelling should be according to the Oxford or Chamber's Dictionary). Standard abbreviations should be used.

Presentation

Manuscripts are to be submitted in triplicate, each copy to include all figures and tables. Manuscripts should be typewritten (double-spaced) on one side of durable, white, bond paper with a margin of 2.5 cm on each side. All pages of the manuscript should be numbered consecutively. A separate page containing the title of the article, running title, name(s) of author(s), complete mailing address*, number of tables, figures and address to which galley proofs should be sent, should be provided. The usual format of a manuscript is, Abstract, Introduction, Materials and Methods, Results, Discussion and References.

Abstract

Each paper must be accompanied by an abstract in triplicate not exceeding 250 words summarizing the principal findings.

*Any change in the address of the author(s) should be promptly communicated to the Academy for future correspondence.

TITLE

Title should be brief, specific and informative of the subject of dicussion in the paper.

RUNNING TITLE

Provide a running title of not more than 40 characters including spaces.

TABLES

Table should be typewritten (double-spaced) on separate pages, numbered consecutively in Roman numerals and collected at the end of the manuscript. Each table should have a descriptive heading typed above it.

FIGURES

Line drawings should be made with India ink on tracing paper or on a white, smooth drawing board/paper. Photographs should be glossy prints with strong contrast. All photographs, charts and diagrams are to be referred to as 'Fig. or Figs' and must be numbered consecutively in Arabic numerals in the order in which they are referred to in the text. Photographs may be grouped together as plates using photographic adhesive or dry mounting tissue. The maximum size for a plate for reproduction is 20 cm $\times$ 14 cm. Magnification should be indicated by scale or figures ($\times$ ...) in the legend. Each figure should have a descriptive legend. Legends should be typed on a separate page for each figure or figures in a plate.

MATHEMATICAL MATTER

All mathematical expressions should be written clearly indicating the distinction between capital and small letters. Clear distinction between upper and lower cases of c, p, k, z, s should be made while writing the expression in hand. Also distinguish between the letters such as 'Oh' and 'zero'; l (el) and 1 (one); v, V and ν (Greek nu); r and γ (gamma), x, X and Greek letter chi (χ), k, K and Greek letter kappa (κ); Greek letter lambda (Λ) and symbol for vector product ($\wedge$); Greek letter epsilon (ϵ) and symbol for 'is an element of' ($\in$). The equation numbers are to be placed at the right-hand side of the page. The name of the

Greek letter or symbol should be written in the margin the first time it is used. Superscripts/subscripts should be simple and should be placed accurately.

References

Reference to the literature may be cited in the text, e.g. as Raman (1955) or (Raman, 1955) etc. Suffixes, a, b should be used following the year to distinguish two or more papers by the same author(s) published in the same year e.g. (Raman, 1955 *a*, *b*). References to literature are to be arranged alphabetically and placed at the end of the article. For names of periodicals, the standard abbreviations listed in the World List of Scientific Periodicals should be used. A sample citation is given as follows:

Margabandhu, V. (1934). An annotated list of Indo-Ceylonese Termites. *J. Bombay nat. Hist. Soc.*, 37, 700—714.

Place the Acknowledgements, if any, at the end of the paper just before References.

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Galley proofs will be sent to the author(s) and should be returned to the Editor *within* 72 *hours*. Major corrections or alterations will be accepted only at the author(s)' s expense. If proofs are not returned within the specified time, they will be read by the Editorial Office.

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All correspondence pertaining to the *Proceedings* and the *Indian Journal of Pure and Applied Mathematics* may be addressed to the Editor of Publications, Indian National Science Academy, Bahadur Shah Zafar Marg, New Delhi 110002.

(F) REGULATIONS REGARDING ACADEMY MEDALS

(A) General Medals

(i) THE CHANDRASEKHARA VENKATA RAMAN MEDAL
(ii) THE MEGHNAD SAHA MEDAL
(iii) THE ARYABHATA MEDAL

1. The Medals to be awarded every three years are:

(*i*) *The Chandrasekhara Venkata Raman Medal*

(*ii*) *The Meghnad Saha Medal*

(*iii*) *The Aryabhata Medal*

2. The Medals shall be awarded by rotation for outstanding contributions in any branch of science coming within the purview of the Academy.

The candidate proposed for the award should play no role in appointment and/or subsequent deliberations of the Committee which would make selection for the award.

3. The President, INSA, shall suggest, for consideration by the Council, names at a meeting of the Council to be held in January of the year of the award and the names selected by the Council shall be announced at the Anniversary General Meeting of the Academy.

4. The person to whom the award is made may be requested to deliver a public lecture on the subject of his work at the Annual General Meeting of the Academy of the year to which the award relates or at one of the General Meetings of the Academy convenient to him. He may also submit three typed copies of the lecture which may be published in the *Proceedings* of the Academy and over which the Academy shall have a copyright.

5. The presentation of the medal will be made to the recipient at the Annual General Meeting of the year of the award or at the General Meeting at which he delivers his lecture.

6. The award will consist of a bronze medal of the specifications given below :

(i) Size : 6.35 cm in diameter

(ii) Weight : About 114 grams

(iii) Design :

Obverse
- Name of the medal (in Devanagari characters)
- Name of the Recipient (in Devanagari characters)
- Year (in International numerals)

Reverse — Seal of the Academy

(B) Subjectwise Medals

(i) THE SRINIVASA RAMANUJAN MEDAL
(ii) THE SATYENDRA NATH BOSE MEDAL
(iii) THE HOMI J BHABHA MEDAL
(iv) THE JAGADISH CHANDRA BOSE MEDAL
(v) THE SUNDERLAL HORA MEDAL
(vi) THE D N WADIA MEDAL
(vii) THE P C MAHALANOBIS MEDAL
(viii) THE SHANTI SWARUP BHATNAGAR MEDAL
(ix) THE S H ZAHEER MEDAL
(x) THE SILVER JUBILEE COMMEMORATION MEDAL

1. *Notice of award of Medals :* Soon after the Annual General Meeting of the Academy a circular shall be issued by the Executive Secretary to all Fellows of the Academy inviting them to suggest by the 15th November preceding the year of award, names which may be deemed worthy of consideration for the award of each of the medals indicating the major scientific achievements of the candidate in about 100 words which from the grounds for their recommendations. In addition, nominations may be called from such institutions as are approved by the Council for that year.

The communication calling for nominations should also indicate the names of all the earlier recipients of the award.

The candidate proposed for the award should play no role in appointment and/or subsequent deliberations of the Committee which would make selection for the award.

2. *Names of candidates to be listed in January :* Before the Statutory Meeting of the Council to be held in January, a list of all candidates proposed by the 15th November shall be arranged in alphabetical order along with their respective work and attainment.

3. The medals to be awarded every three years:

(a) Physical Sciences (Physics, Chemistry & Mathematics)

(i) *The Srinivasa Ramanujan Medal*

(ii) *The Satyendranath Bose Medal*

(iii) *The Homi J Bhabha Medal*

(b) Life Sciences (Botany, Zoology, Anthropology, Medical and Veterinary Sciences, Physiology & Biochemistry)

(i) *The Jagdish Chandra Bose Medal*

(ii) *The Sunder Lal Hora Medal*

(c) Earth Sciences (Geology, Geophysics, Geography Geochemistry)

(i) *The D N Wadia Medal*

(d) Engineering and Technology

(i) *The P C Mahalanobis Medal*

(ii) *The Shanti Swarup Bhatnagar Medal*

(iii) *The S H Zaheer Medal*

(e) Agriculture and Applied Sciences

(i) *The Silver Jubilee Commemoration Medal*

4. *Conditions governing the awards:* The following conditions shall govern the awards:

(i) The medal shall be awarded for outstanding contributions to the discipline of science concerned. Eminence is to be judged in accordance to the criterion that the scientific work of the candidate is such that its impact has been felt for a considerable length of time.

(ii) The S H Zaheer Medal will be awarded for outstanding contributions to the application of Chemical Sciences to Technology and Industry.

(iii) The person to whom the award is made shall deliver a public lecture on the subject of his work at the Anniversary General Meeting in January of the year to which the award relates or at one of the General Meeting of the Academy convenient to him. He shall also submit three typed copies of the lecture which shall be published in the *Proceedings* of the Academy and over which the Academy shall have a copyright.

5. *Short-listing of nominations:* The nominations received are to be examined by a Committee of the two Secretaries and any other experts they may wish to consult to prepare a short list by 30th November preceding the year of award. Detailed information of the scientific attainments including specific reference to outstanding contributions made by these short-listed scientists be then called for.

6. *Appointment of the Advisory Board:* At a meeting of the Council to be held in January the Council shall appoint an Advisory Board consisting of not more than seven Members including the President, Conveners of Sectional Committees concerned and experts. Fellows whose names have been proposed for the award shall be excluded from the membership of the Board.

The Chairman of the Board shall have a casting vote.

7. *Circulation of the list to Members of the Advisory Board:* Not later than the second week of February and six weeks before the date fixed for the meeting of the Advisory Board, the Executive Secretary shall arrange to circulate the short list of names with detailed information together with brief particulars of all nominations received to the members of the Advisory Board. The Members of the Advisory Board will be requested to select any one name for consideration of the Board giving specific reasons for their selection and to forward the same to the Charman of the Board by the 30th March.

Members of the Advisory Board may also be requested to send additional nominations along with details one month in advance of the date of the meeting of the Advisory Board if they so desire.

8. *Selection by the Advisory Board:* The Chairman of the Board, shall, on receipt of the views of the Members, submit the recommendations of the Board in the form of a written report to the Council signed by all the Members by the 30th April, if necessary by discussion at one or more meetings of the Board to be convened by him for the purpose. The recommendations by the Advisory Board shall not be valid unless *two-third* of the Members of the Board shall have voted for the candidate selected. It shall be open to the Board to report to the Council that no award shall be made for the particular year, shall the Board consider that no suitable name can be proposed in which case the award for the year shall lapse.

9. *Selected name to be communicated to the Council:* At the meeting of the Council to be held in May, the report received from the Chairman of the Advisory Board shall be considered and decision taken regarding the award.

10. *Announcement of the award:* The name of the recipient shall be announced at the General Meeting in August after the recipient accepts the award and indicates the subject of his proposed lecture.

11. *Presentation of the award:* The presentation of the Medal will be made to the recipient at the Anniversary General Meeting of the year of the award or at the General Meeting at which he delivers his lecture.

12. *Specifications of the awards:* The awards will consists of a bronze medal of the specifications given below:

(i) Size : 6.35 cm in diameter

(ii) Weight : About 114 grams

(iii) Design :

Obverse
- Name of the Medal (in Devanagari characters)
- Name of the Recipient (in Devanagari characters)
- Year (in International numerals)

Reverse Seal of the Academy

(C) Endowed Medals

(i) CHANDRAKALA HORA MEMORIAL MEDAL

(FOUNDED IN THE YEAR 1945 FROM AN ENDOWMENT OF RS. 3,000 BY DR S L HORA AND MRS V HORA IN MEMORY OF THEIR DAUGHTER)

1. *Notice of award of Medal:* Soon after the Annual General Meeting of the Academy a circular shall be issued by the Executive Secretary to all Fellows of the Academy inviting them to suggest by 15th November preceding the year of award, names which may be deemed worthy of consideration for the award of CHANDRAKALA HORA MEMORIAL MEDAL indicating the major scientific achievements of the candidate in about 100 words which form the ground for their recommendations. In addition nominations may be called for from such institutions as are approved by the Council for that year.

The communication calling for nominations should also indicate the names of all the earlier recipients of the award.

The candidate proposed for the award should play no role in appointment and/or subsequent deliberations of the Committee which would make selection for the award.

2. *Names of candidates to be listed in January:* Before the Statutory Meeting of the Council to be held in January, a list of all candidates proposed by 15th November shall be arranged in alphabetical order along with their respective work and attainment.

3. The following conditions shall govern the award:

(i) *Conditions governing the award:* The Chandrakala Hora Memorial Medal shall be awarded every fifth year to an eminent scientist for conspicuously important contributions to the development of fisheries in India during the five years preceding the year of award.

(ii) 'Development' shall include all aspects of biological, technological and sociological studies, including the improvement of fishing nets and crafts and the betterment of the social and economic conditions of the fishermen. In fact, its scope shall include any discovery or invention or new practical method which will tend to increase fishery production in India on a paying basis.

(iii) The person to whom the award is made shall deliver a public lecture on the subject of his work at the Anniversary General Meeting in January of the year to which the award relates or at one of the General Meetings of the Academy convenient to him. He shall also submit three typed copies of the lecture which shall be published in the *Proceedings* of the Academy and over which the Academy shall have a copyright.

4. *Short-listing of nominations:* The nominations received are to be examined by a Committee of the two Secretaries and any other experts they may wish to co-opt to prepare a short list by 30th November preceding the year of award Detailed information of the scientific attainments including specific reference to outstanding contributions made by these short-listed scientists be then called for.

5. *Appointment of the Advisory Board:* At a meeting of the Council to be held in January, the Council shall appoint an Advisory Board consisting of not more than seven members including the President, Conveners of Sectional Committees concerned and experts. Fellows whose names have been proposed for the award shall be excluded from the membership of the Board.

The Chairman of the Board shall have a casting vote.

6. *Circulation of the list to Members of the Advisory Board:* Not later than the second week of February and six weeks before the date fixed for the meeting of the Advisory Board, the Executive Secretary shall arrange to circulate the short list of names with detailed information together with brief particulars of all nominations

received to the members of the Advisory Board. The Members of the Advisory Board will be requested to select any one name for consideration of the Board giving specific reasons for their selection and to forward the same to the Chairman of the Board by the 30th March.

Members of the Advisory Board may also be requested to send additional nominations along with details one month in advance of the date of the meeting of the Advisory Board if they so desire.

7. *Selection by the Advisory Board:* The Chairman of the Board shall, on receipt of the views of the members, submit the recommendations of the Board in the form of a written report to the Council signed by all the Members by 30th April, if necessary by discussion at one or more meetings of the Board to be convened by him for the purpose. The recommendation by the Advisory Board shall not be valid unless *two-third* of the Members of the Board shall have voted for the candidate selected. It shall be open to the Board to report to the Council that no award shall be made for the particular year, shall the Board consider that no suitable name can be proposed in which case the award for the year shall lapse. In such case, however, an Advisory Board shall be constituted after a lapse of two years and in the manner prescribed in Regulation 5, till a recommendation is made for an award. The period of five years mentioned in Regulation 3(i), shall always be counted from the year of award.

8. *Selected name to be communicated to the Council:* At the meeting of the Council to be held in May the report received from the Chairman of the Advisory Board shall be considered and decision taken regarding the award.

9. *Announcement of the award:* The name of the recipient shall be announced at the General Meeting in August after the recipient accepts the award and indicates the subject of his proposed lecture.

10. *Presentation of the medal:* The presentation of the medal will be made to the recipient at the Anniversary General Meeting of the year of the award or at the General Meeting at which he delivers his lecture.

11. Specifications of the award: The award will consist of a bronze medal of the specification given below :

(i) Size : 6.35 cm in diameter

(ii) Weight : About 114 grams

(iii) Design :

Obverse — Name of the Medal (in Sanskrit, Devanagari characters) along with the figure of Matsyavatara.

Obverse — Name of the Recipient (in Devanagari characters)

On the *Rim* — Year (in International numerals)

Reverse — Seal of the Academy

(ii) SHREE DHANWANTARI PRIZE

(FOUNDED IN THE YEAR 1969 FROM AN ENDOWMENT OF RS. 16,000 BY SHRI A K ASUNDI IN THE MEMORY OF HIS YOUNGEST DAUGHTER SHRIMATI AKKADEVI)

1. *Notice of the award of prize* : The prize shall be awarded every five years, the first award being made in 1971. Soon after the Annual General Meeting in October of the year preceding the year of award, the Executive Secretary shall issue a circular letter to all Fellows of the Academy inviting them to suggest by 15th November, names of scientists (not restricted to Fellows of the Academy) for the award (in the case of the first award, however, the circular will be issued soon after the finalization of the draft regulations). All such proposals shall contain the major scientific achievements of the candidate in about 100 words. In addition, nominations may be called for from such institutions as are approved by the Council for that year.

The communication calling for nominations should also indicate the names of all the earlier recipients of the award.

The candidate proposed for the award should play no role in appointment and/or subsequent deliberations of the Committee which would make selection for the award.

2. *Conditions governing the prize :* The prize shall be awarded to eminent scientists for outstanding work in India in any

branch of medical sciences in its widest sense including research in drugs and methodology of Ayurveda. This shall include research in medical as well as chemical, physical and biological sciences aimed at the amelioration of human suffering. In fact, its scope shall include any outstanding discovery in drug or modes of treatment or inventions established as a landmark in medical sciences in its widest sense, as detailed above.

3. *Names of candidates to be listed in January* : Before the Statutory Meeting of the Council to be held in January a list of all nominations received by the 15th May shall be arranged in alphabetical order along with their respective work and attainments.

4. *Short-listing of nominations* : The nominations received are to be examined by a Committee of the two Secretaries and any other experts they may wish to co-opt to prapare a short list by 30th November. Detailed information of the scientific attainments including specific reference to outstanding contributions made by these short-listed scientists be them called for

5. *Appointment of Advisory Board* : At a meeting of the Council to be held in January the Council shall appoint an Advisory Board consisting of not more than seven members including the President, Conveners of the Sectional Committees concerned and experts. Scientists who are proposed for the award shall not be members of the Advisory Board. The Chairman of the Board shall be named by the Council and shall have a casting vote.

6. *Circulation of the list of Members of the Advisory Board* : Not later than the second week of February and six weeks before the date fixed for the meeting of the Advisory Board, the Executive Secretary shall arrange to circulate the short list of names with detailed information together with brief particulars of all nominations received to the members of the Advisory Board. The Members of the Advisory Board will be requested to select any one or more names for consideration of the Board giving specific reasons for their selection and to forward the same to the Chairman of the Board by the 30th March.

Members of the Advisory Board may also be requested to send additional nominations along with details one month in advance of the date of the meeting of the Advisory Board if they so desire.

7.1 *Selection by the Advisory Board :* The Chairman of the Board shall, on receipt of the views of the members submit the recommendations of the Board in the form of a written report signed by all the members to the Council by 30th April, if necessary by discussion at one or more meeting of the Board to be convened by him for the purpose. The recommendations made by the Advisory Board shall not be valid unless *two-third* of the Members of the Board shall have voted for the candidates selected. It shall be open to the Board to report to the Council that no award shall be made for the particular year, should the Board consider that no suitable name can be proposed in which case the award for the year shall lapse. In such a case, however, the Council of INSA shall constitute an Advisory Board after a lapse of two years and in the manner prescribed in para 5, till a recommendation is made for the award. The period of five years mentioned in Regulation 1, shall always be counted from the year of the award.

7.2 It shall be open to the Board to recommend more than one scientist for the award. In such a case the prize money will be equally distributed among the scientists declared as recipients of the award but each will be given a sparate medal.

8. *Selected name to be communicated to the Council :* At the meeting of the Council to be held in May, the report received from the Chairman of the Advisory Board shall be considered and decision taken regarding the award.

9. *Announcement of the award :* The name(s) of the recipient(s) shall be announced at the General Meeting in August after receiving intimation of acceptance, indicating the subject(s) of the proposed lecture(s).

10. *Value of the prize* : The award will consist of a prize of Rs. 5,000 and of a bronze medal of the specifications given below :

(i) Size : 6.35 cm. in diameter

(ii) Weight : About 114 grams

(iii) Design :

Observe	Name of the Medal (in Devanagari characters) Figure of Shree Dhanwantari, embossed name of the Recipient (in Devanagari characters) Year (in International numerals)
Reverse	Seal of the Academy

11. The Presentation of the prize and the medal will be made to each recipient at the Anniversary General Meeting of the year of the award or at the General Meeting at which he delivers his lecture. Each recipient shall submit three typed copies of the lecture, at least three months in advance, which shall be published by the Indian National Science Academy and over which the Academy shall have a copyright.

(iii) PROFESSOR T R SESHADRI SEVENTIETH BIRTHDAY COMMEMORATION MEDAL

(FOUNDED IN THE YEAR 1971 FROM AN ENDOWMENT OF RS. 10,000 BY THE STUDENTS OF PROF. T R SESHADRI)

1. *Notice of the award of Medal*: The Medal shall be awarded every three years, the first award having been made in 1973. Soon after the Annual General Meeting in October, preceding the year of award, the Executive Secretary shall issue a circular letter to all Fellows of the Academy inviting them to suggest by 15th November (names of scientists not restricted to Fellows of the Academy) for the award. All such proposals shall contain the major scientific achievements of the candidate in about 100 words to any branch of chemistry or chemical technology. In addition nominations may be called for from such institutions as are approved by the Council for that year.

The communication calling for nominations should also indicate the names of all the earlier recipients of the award.

The candidate proposed for the award should play no role in appointment and/or subsequent deliberations of the Committee which would make selection for the award.

2. *Conditions governing the award of Medal*: The medal shall be awarded to an eminent chemist of Indian nationality for outstanding work in any branch of chemistry or chemical technology.

3. *Names of candidates to be listed in January:* Before the Statutory Meeting of the Council to be held in January, a list of all nominations received by 15th November shall be arranged in alphabetical order along with their respective work and attainments.

4. *Short-listing of nominations :* The nominations received are to be examined by a Committee of the Two Secretaries and any other experts they may wish to co-opt to prepare a short list by 30th November. Detailed information of the scientific attainments including specific reference to outstanding contributions made by these short-listed scientists be then called for.

5. *Appointment of Advisory Board :* At a meeting of the Council to be held in January the Council shall appoint an Advisory Board consisting of not more than seven members including the President, Conveners of the Sectional Committees concerned and experts. Scientists who are proposed for the award shall not be members of the Advisory Board The Chairman of the Board shall have a casting vote.

6. *Circulation of the list to Members of the Advisory Board :* Not later than the second week of February and six weeks before the date fixed for the meeting of the Advisory Board, the Executive Secretary shall arrange to circulate the short list of names with detailed information together with brief particulars of all nominations received to the member of the Advisory Board. The Members of the Advisory Board will be requested to select any one name for consideration of the Board giving specific reasons for their selection and to forward the same to the Chairman of the Board by the 30th March.

Members of the Advisory Board may also be requested to send additional nominations along with details one month in advance of the date of the meeting of the Advisory Board if they so desire.

7. *Selection by the Advisory Board :* The Chairman of the Board shall, on receipt of the view of the members submit the recommendations of the Board in the form of a written report to the Council signed by all the members by 30th April, if necessary by discussion at one or more meetings of the Board to be convened by him for the purpose. The recommendation made by the Advisory Board shall not be valid unless *two-thirds* of the members of the Board shall have voted for the candidate selected. It shall be open to the Board to report to the Council that no award shall be made for the particular year, should the Board consider that no suitable name can be proposed in which case the award for the year shall lapse. In such a case, however the Council of INSA shall constitute an Advisory Board at the next January Meeting and in the manner prescribed in Regulation 5, till a recommendation is made for award. The period of three years mentioned in Regulation 1, shall always be counted from the year of the award.

8. *Selected name to be communicated to the Council :* At the meeting of the Council to be held in May, the report received from the Chairman of the Advisory Board shall be considered and decision taken regarding the award.

9 *Announcement of the award :* The name of the recipient shall be announced at the General Meeting in August after receiving intimation of acceptance indicating the subject of the proposed lecture.

10. *Value of the award :* The award will consist of a cash prize of Rs. 1,500/- and a bronze medal of the specifications given below :

(i) Size : 6.35 cm in diameter
(ii) Weight : About 114 grams
(iii) Design :

Obverse
- Name of the Medal (in Devanagari characters)
- Name of the Recipient (in Devanagari characters)
- Year (in International numerals)

Reverse Seal of the Academy

11. *Presentation of the Award* : The presentation of the prize and the medal will be made to the recipient at the Anniversary General Meeting of the Academy in January at which he delivers his lecture and failing this at the succeeding Annual General Meeting in October. The recipient shall submit three typed copies of the lecture, at least three months in advance which shall be published by the INSA and over which the Academy shall have a copyright.

12. The recipient of the award shall be paid travelling and halting expenses within India for journeys performed to deliver the lecture, at the rates applicable to the Council Members for attending meeting of the Council.

(iv) VISHWAKARMA MEDAL

(FOUNDED IN THE YEAR 1976 FROM AN ENDOWMENT OF RS. 33,000 BY DR P B SARKAR, FNA)

1. *Notice of the Award* : The medal shall be awarded every three years, the first award being made in 1979. Soon after the Annual General Meeting in October, preceding the year of the award, Executive Secretary shall issue a circular letter to all Fellows of the Academy inviting them to suggest by 15th November names of the Scientists (not restricted to Fellows of the Academy) for the award (in the case of the first award, however, the circular will be issued soon after the finalisation of the draft regulations). All such proposal shall contain the major scientific achievement of the candidate in about 100 words whose discovery or invention has led to the start of a new industry in India or to significant improvement of an existing process resulting in cheaper or better product. In addition, nominations may be called for from such institutions as are approved by the Council for that year.

The communication calling for nominations should also indicate the name of all the earlier recipients of the award.

The candidate proposed for the award should play no role in appointment and/or subsequent deliberations of the Committee which would make selection for the award.

2. *Conditions governing the Award*: The Medal shall be awarded to eminent scientists, technologists or any one whose discovery or invention has led to the start of a new industry in India or to significant improvement of an existing process resulting in cheaper or better product.

3. *Names of candidates to be listed in January*: Before the Statutory Meeting of the Council to be held in January, a list of all nominations received by 15th November shall be arranged in alphabetical order along with their respective work and attainments.

4. *Short-listing of nominations*: The nominations received are to be examined by a Committee of the two Secretaries and any other experts they may wish to co-opt to prepare a short list by 30th November. Detailed information of the scientific attainments including specific reference to outstanding contributions made by these short-listed scientists accompanied by the relevant published work be then called for.

5. *Appointment of the Advisory Board*: At a meeting of the Council to be held in January, the Council shall appoint an Advisory Board consisting of not more than seven members including the President, Conveners of the Sectional Committees concerned and experts. Scientists who are proposed for the award shall not be members of the Advisory Board.

The Chairman of the Board shall be named by the Council and shall have a casting vote.

6. *Circulation of the list to Members of the Advisory Board*: Not later than the second week of February and six weeks before the date fixed for the meeting of the Advisory Board, the Executive Secretary shall arrange to circulate the short list of names with detailed information together with brief particulars of all nominations received to the members of the Advisory Board. The Members of the Advisory Board will be requested to select any one or more names for consideration of the Board giving specific reasons for their selection and to forward the same to the Chairman of the Board by 30th March.

Members of the Advisory Board may also be requested to send additional nominations if they wish to do so along with details one month in advance of the date of the meeting of the Advisory Board.

7.1 *Selection by the Advisory Board* : The Chairman of the Board shall, on receipt of the views of the Members, submit the recommendations of the Board in the form of a written report signed by all the members to the Council by 30th April if necessary by discussion at one or more meetings of the Board to be convened by him for the purpose. The recommendations made by the Advisory Board shall not be valid unless *two-third* of the members of the Board shall have voted for the candidates selected. It shall be open to the Board to report to the Council that no award shall be made for the particular year, should the Board consider that no suitable name can be proposed in which case the award for the year shall lapse. In such a case, however, the Council of INSA shall constitute an Advisory Board after a lapse of two years and in the manner prescribed in Para 5, till a recommendation is made for the award. The period of three years mentioned in Regulation 1, shall always be counted from the year of the award.

7.2 It shall be open to the Board to recommend more than one scientist for the award. In such a case the prize money will be equally distributed among the scientists declared as recipients of the award but each will be given a separate medal.

8. *Selected name to be communicated to the Council* : At the meeting of the Council to be held in May the report received from the Chairman of the Advisory Board shall be considered and decision taken regarding the award.

9. *Announcement of the Medal* : The name(s) of the recipient(s) shall be announced at the General Meeting in August after receiving intimation of acceptance indicating the subject(s) of the proposed lecture(s).

10. *Value of the Award* : The award will consist of a prize of Rs. 7,500 and a bronze medal of the specification given below :

(i) Size : 6.35 cm in diameter

(ii) Weight : About 114 grams

(iii) Design :

Obverse — Name of the Medal (in Devanagari characters); Name of the Recipient (in Devanagari characters); Year (in International numerals)

Reverse — Seal of the Academy

11. The presentation of the prize and the medal will be made to each recipient at the Anniversary General Meeting of the year of the award or at the General Meeting at which he delivers his lecture. Each recipient shall submit three typed copies of the lecture at least three months in advance, which shall be published by the INSA and over which the Academy shall have a copyright.

(G) REGULATIONS REGARDING ACADEMY LECTURES

(i) THE SISIR KUMAR MITRA MEMORIAL LECTURE

(ii) THE KARIAMANIKKAM SRINIVASA KRISHNAN MEMORIAL LECTURE

1. *Suggestions for Lectureship* : Soon after the Annual General Meeting of the Academy in October, the Executive Secretary shall issue a circular letter to all Fellows of the Academy inviting them to suggest by 15th November preceding the year of the appointment of the Lecture, the names of suitable persons whom they would deem worthy of consideration for appointment of the Lecture indicating the major scientific achievement of the candidate in about 100 words which form the ground for their recommendations. The names so suggested should be from among the persons who have made distinct contributions to any branch of natural science coming within the purview of the Academy. In addition nominations may be called for from such institutions as are approved by the Council for that year.

The communication calling for nominations should also indicate the names of all the earlier recipients of the award.

The candidate proposed for the award should paly no role in appointment and/or subsequent deliberations of the Committee which would make selection for the award.

2. *Names of candidates to be listed in January*: Before the Statutory Meeting of the Council to be held in January a list of all nominations received by 15th November shall be arranged subject-wise along with the respective work and attainment of the nominees.

3. *Short-listing of Nominations*: The nominations received are to be examined by a Committee of the Secretaries and any other experts they may wish to co-opt to prepare a short list by 30th November. Detailed information of the scientific attainments including specific reference to outstanding contributions made by these short-listed scientists be then called for.

4. *Academy's Lectures*: The appointments to be made every three years alternately are in respect of the following Lectures:

(*a*) *The Sisir Kumar Mitra Memorial Lecture*

(*b*) *The Kariamanikkam Srinivasa Krishnan Memorial Lecture*

5. *Appointment of the Advisory Board*: At a meeting of the Council to be held in January, the Council shall appoint an Advisory Board consisting of not more than seven members including the President, Conveners of the Sectional Committees concerned and experts. Fellows whose names have been proposed for the lecture shall be excluded from the membership of the Board.

The Chairman of the Board shall have a casting vote.

6. *Circulation of the list to Members of the Advisory Board*: Not later than the second week of February and six weeks before the date fixed for the meeting of the Advisory Board, the Executive Secretary shall arrange to circulate the short list of names with detailed information together with brief particulars of

all nominations received to the members of the Advisory Board. The members of the Advisory Board will be requested to select any one name for consideration of the Board giving specific reasons for their selection and to forward the same to the chairman of the Board by the 30th March.

Members of the Advisory Board may also be requested to send additional nominations along with details one month in advance of the data of the meeting of the Advisory Board if they so desire.

7. *Selection by the Advisory Board*: The Chairman of the Board shall, on receipt of the views of the members, submit the recommendations of the Board in the form of a written statement to the Council signed by all the members by 30th April, if necessary by discussion at one or more meetings of the Board to be convened by him for the purpose. The recommendations by the Advisory Board shall not be valid unless *two-third* of the members of the Board shall have voted for the candidate selected. It shall be open to the Board to report to the Council that no appointment shall be made for the particular year, shall the Board consider that no suitable name can be considered in which case the appointment for the year shall lapse.

8. *Announcement of the name of Lecturer* : The appointment shall be announced at the General Meeting to be held in August after the selected Lecturer accepts the appointment for the year, and indicate the subject of his proposed lecture.

9. *Honorarium* : The Lecturer shall be paid a remuneration of Rs. 1,000/-. Besides, he shall be paid travelling and halting expenses within India for journeys performed to deliver the lecture, at the rates applicable to the members of the Council for attending meetings.

10. *Delivery of Lecture and its Publication* : The Lecturer shall deliver at his discretion one or two lectures on the subject selected, normally during the Annual General Meeting of the Academy in October of the year of Lecture and failing this at the succeeding Anniversary General Meeting. In case the selected Lecturer for a specified year is, for any reason, unable to deliver

the lecture latest by the Anniversary General Meeting, the Lectureship for that year shall lapse. The Lecturer shall submit at least three months in advance three copies of his lecture which shall be published by the Indian National Science Academy and over which the Academy shall have a copyright.

Endowed Lectures

(iii) THE BIRES CHANDRA GUHA MEMORIAL LECTURE

(FOUNDED IN THE YEAR 1965 FROM AN ENDOWMENT OF RS. 10,000 BY DR (MRS) PHULRENU GUHA IN THE MEMORY OF HER HUSBAND PROFESSOR BIRES CHANDRA GUHA)

(FIRST AWARD MADE IN 1969)

1. *Suggestions for Lecture :* Soon after the Annual General Meeting of the Academy in October every third year the Executive Secretary shall issue a circular to all Fellows of the Academy inviting them to suggest by 15th November preceding the year of the appointment of the Lecturer, names of suitable persons whom they would deem worthy of consideration for appointment to the lecture indicating the major scientific achievement of the candidate in about 100 words which form the ground for their recommendations. The name so suggested should be from amongst the persons who have made distinct contributions in the field of biochemistry, nutrition, food and allied problems in the broadest sense. In addition nominations may be called from such institutions as are approved by the Council for that year.

The communication calling for nomination should also indicate the names of all the earlier recipients of the award.

The candidate proposed for the award should play no role in appointment and/or subsequent deliberations of the Committee which would make selection for the award.

2. *Names of candidates to be listed in January :* Before the Statutory Meeting of the Council to be held in August a list of all nominations received by 15th November shall be arranged subject-wise along with the respective work and attainment of the nominees.

3. *Short-listing of nominations :* The nominations received are to be examined by a Committee of the two Secretaries and any other experts they may wish to co-opt to prepare a short list by 30th November. Detailed information of the scientific attainments including specific reference to outstanding contributions made by these short-listed scientists be then called for.

4. *Appointment of the Advisory Board* : At a meeting of the Council to be held in January the Council shall appoint an Advisory Board consisting of not more than seven members including the President, Conveners of the Sectional Committees concerned and experts. Fellows whose names have been proposed for the award shall be excluded from the membership of the Board.

The Chairman of the Board shall have a casting vote.

5. *Circulation of the list to Members of the Advisory Board* : Not later than the second week of February and six weeks before the date fixed for the meeting of the Advisory Board, the Executive Secretary shall arrange to circulate the short list of names with detailed information together with brief particulars of all nominations received to the members of the Advisory Board. The Members of the Advisory Board will be requested to select any one name for consideration of the Board giving specific reasons for their selection and to forward the same to the Chairman of the Board by the 30th March.

Members of the Advisory Board may also be requested to send additional nominations along with details one month in advance of the date of the meeting of the Advisory Board if they so desire.

6. *Selection by the Advisory Board :* The Chairman of the Board shall, on receipt of the views of the members, submit the recommendations of the Board in the form of a written statement signed by all the members to the Council by 30th April, if necessary by discussion at one or more meetings of the Advisory Board to be convened by him for the purpose.

The recommendations should contain two names, in order of preference, to enable the offer to be made to the second choice

should the first one decline the offer. The recommendations by the Advisory Board shall not be valid unless *two-thirds* of the members of the Board shall have voted for the candidate selected. It shall be open to the Board to report to the Council at its meeting in May that no appointment shall be made for the particular year, should the Board consider that no suitable name can be considered in which case the appointment for the year shall lapse.

7. *Announcement of the name of Lecturer :* The appointment shall be announced at the General Meeting to be held in August of the year of appointment after the selected Lecturer accepts the appointment for the year, and indicates the subject of his proposed lecture.

8. *Honorarium :* The Lecturer shall be paid a remuneration of Rs. 1,000—1,500, depending on the income. Besides, he shall be paid travelling and halting expenses within India for journey performed to deliver the lecture, at the rate applicable to the members of the Council for attending meetings.

9. *Delivery of lecture and its publications :* The Lecturer shall deliver at his discretion one or two lectures on the subject selected, normally during the Annual General Meeting of the Academy in October of the year of Lecture and failing this at the succeeding Anniversary General Meeting. The Lecturer shall submit at least three months in advance three copies of his lecture which shall be published by the Indian National Science Academy and over which the Academy shall have a copyright.

(iv) THE BASHAMBAR NATH CHOPRA LECTURE

(FOUNDED IN THE YEAR 1968 FROM AN ENDOWMENT OF RS. 10,000 IN THE MEMORY OF DR B N CHOPRA BY HIS FAMILY MRS IQBAL CHOPRA, SHRI PRAN NATH CHOPRA, SHRI RAMESH NATH CHOPRA AND MRS MOHINI DUGGAL)

(FIRST AWARD MADE IN 1981)

1. *Suggestions for Lecture:* Soon after the Annual General Meeting of the Council in October the Executive Secretary shall

issue a circular letter to all Fellows inviting them to suggest by 15th November preceding the year of the appointment of the Lecturer, names of the suitable persons whom they would deem worthy of consideration for appointment of the Lecture indicating the major scientific achievement of the candidate in about 100 words, which form the ground for their recommendations. The names so suggested should be from amongst the persons who have made distinct contribution to any branch of biological sciences coming within the purview of the Academy. In addition nominations may be called for from such institutions as are approved by the Council for that year.

The communication calling for nominations should also indicate the names of all the earlier recipients of the award.

The candidate proposed for the award should play no role in appointment and/or subsequent deliberations of the Committee which would make selection for the award.

2. Names of the candidates to be listed in January. Before the Statutory Meeting of the Council to be held in August a list of all nominations received by 15th November shall be arranged subjectwise along with the respective work and attainment of the nominee.

3. *Short-listing of nominations* : The nominations received are to be examined by a Committee of the two Secretaries and any other experts they may wish to co-opt to prepare a short list by 30th November. Detailed information of the scientific attainments including specific reference to outstanding contributions made by these short-listed scientists be then called for.

4. *Appointment of the Advisory Board* : At a meeting of the Council to be held in January the Council shall appoint an Advisory Board consisting of not more than seven members including the President, Conveners of Sectional Committees concerned and experts. Fellows whose names have been proposed for the award, shall be excluded from the membership of the Board.

The Chairman of the Board shall have a casting vote.

5. *Circulation of the list to the Members of the Advisory Board* : Not later than the second week of February and six weeks before the date fixed for the meeting of the Advisory Board, the Executive Secretary shall arrange to circulate the short list of names with detailed information together with brief particulars of all nominations received to the members of the Advisory Board. The Members of the Advisory Board will be requested to select any one name for consideration of the Board giving specific reasons for the selection and to forward the same to the Chairman of the Board by the 30th March.

Members of the Advisory Board may also be requested to send additional nominations along with details one month in advance of the date of the meeting of the Advisory Board if they so desire.

6. *Selection by the Advisory Board* : The Chairman of the Board shall, on receipt of the views of the members, submit the recommendations of the Board in the form of a written statement signed by all the members to the Council by 30th April, if necessary by discussion at one or more meetings of the Advisory Board to be convened by him for the purpose.

The recommendations should contain two names, in order of preference, to enable the offer to be made to the second choice should the first one decline the offer. The recommendations by the Advisory Board shall not be valid unless *two-thirds* of the members of the Board shall have voted for the candidate selected. It shall be open to the Board to report to the Council at its meeting in May that no appointment shall be made for the particular year, should the Board consider that no suitable name can be considered in which case the appointment for the year shall lapse.

7. *Announcement of the name of Lecturer* : The appointment shall be announced at the General Meeting to be held in August the year of appointment after the selected Lecturer accepts the appointment for the year, and indicates the subject of his proposed lecture.

8. *Honorarium* : The Lecturer shall be paid a remuneration of Rs. 1,000—1,500, depending on the income. Besides, he shall

be paid travelling and halting expenses within India for journey performed to deliver the lecture, at the rate applicable to the members of the Council for attending meetings.

9. *Delivery of Lecture and its Publication* : The Lecturer shall deliver at his discretion one or two lectures on the subject selected, normally during the Annual General Meeting of the Academy in October of the year of Lecture and failing this at the succeeding Anniversary General Meeting. The Lecturer shall submit at least three months in advance three copies of his lecture which shall be published by the Indian National Science Academy and over which the Academy shall have a copyright.

(H) REGULATIONS REGARDING SCIENCE ACADEMY MEDALS FOR YOUNG SCIENTISTS

1. *Name of the Award* : The award shall be called 'Science Academy Medals for Young Scientists'.

2. *Purpose and Eligibility* : The awards shall be made in recognition of distinct contributions to any branch of science or technology coming within the purview of the Academy.

3. Any citizen of India below the age of 32 years, as reckoned on 31st December preceding the year of award, shall be eligible for consideration on the award for outstanding work done in India in science and technology.

4. Not more than 15 awards shall generally be made in a year. However, in case some exceptionally good candidates are available in a year, the total number may be increased up to a maximum of 20.

5. *Nominations for the Award* : Name of the candidate may be proposed by the Fellows of the Academy/any scientific society of all India character/university faculties/post-graduate departments or research institutions. Each nomination shall be accompanied by detailed statements of the nominee. Notification inviting nomina-

tions for the award shall be issued each year after the Ordinary General Meeting of the Academy to be held in August.

The nominations with all relevant information must reach the Academy latest by 1st December.

6. *Selection Committee for the Award*: In awarding the Medals the Council of the Academy shall be assisted by the Sectional Committees. A Committee to be constituted by the President would examine nominations received under the category (M) miscellaneous and assign it to different committees for consideration.

7. *Circulation of the list to the members of the Sectional Committees*: Not later than the second week of February the Executive Secretary shall arrange to circulate the list of names of the persons proposed for the award along with their particulars and referee's reports received to the members of the respective Sectional Committees with a request to communicate their assessment of the candidate to the Conveners of the respective Sectional Committees by 15th March.

The Convener, if necessary, may refer the particulars of such candidates whose areas of specialisation are not represented adequately among the members of the Sectional Committee to appropriate experts who should be Fellows of the Academy.

8. *Grading*: Marking will be from 0 to 10. The Convener shall prepare a list of the marks obtained by the candidates and shall generally recommend the first three to be called for presentation of their work.

The Convener shall make all efforts to obtain in time the marks from all members of the Sectional Committee in view of the importance the Academy attaches to the quality of the persons to be selected. The Office of the Academy shall render all assistance in this regard.

The invited candidates will make the presentation of their work to the concerned members of the Sectional Committee along

with as many experts as can possibly attend. In order to facilitate the latter the presentation may be arranged whenever practicable in any suitable academic institution by the Convener.

The work of the candidates under consideration for the award of Science Academy Medals for Young Scientists be presented in two groups—Sectional Committees I to V and Sectional Committees VI to X.

The meeting of the Sectional Committee are normally held during the third week of April every year. The Sectional Committees shall devote one full day entirely and exclusively for this purpose.

The candidates called for the presentation of their work before the Sectional Committees are entitled to II class return rail fare and per diem according to the rules of the Academy.

9. *Recommendations of the Sectional Committees* : Each Sectional Committee will send its recommendation to the Council in writing, signed by all members of the Sectional Committee present. The recommendations shall contain, strictly in order of priority, not more than three names of candidates. The main criteria for selection will be the originality of the candidate's research contribution and understanding as became evident in the presentation and discussion.

The recommendations of the Sectional Committee should be handed over as soon as the meeting is over by the Convener in a sealed envelope addressed to the Secretary (Physical Sciences in respect of Sectional Committee to I to V and Biological Sciences in respect of Sectional Committees VI to X) of the Academy. The envelope should bear the superscription 'To be opened by the addressee only'.

10. *Selection by the Council* : At the meeting of the Council to be held in August, the reports received from the Conveners of the Sectional Committee shall be considered and a decision taken regarding the awards.

11. *Announcement of the Awards* : The names of the young scientists selected for the award by the Council shall be announced at the Ordinary General Meeting of the Academy to be held in August.

12. *Presentation of the Medals* : The presentation of the medals to the recipients will be made at the time of the Anniversary General Meeting of the Academy.

The Academy would bring out a publication containing the work of the Young Scientists selected for the award at the time of the presentation of the award.

13. *Value* : The award shall consist of a bronze medal of the specification given below :

(i) Size : 6.35 cm in diameter

(ii) Weight : About 114 grams

(iii) Design :

Obverse	Name of Medal (in Devanagari characters) Name of the Recipient (in Devanagari characters) Year (in International numerals)
Reverse	Seal of the Academy (in Devanagari characters)

Each awardee shall receive along with the medal a cash prize of Rs. 5,000/-. The awardees will be paid actual I class rail fare and a suitable daily allowance according to INSA rules. Daily allowance will be admissible for a maximum of 2 days for attending the presentation ceremony at the inauguration of the Annual Session of the Indian Science Congress Association.

The recipient is also entitled for a research grant to be utilised for the advancement of his research work on the basis of a specific proposal and its evaluation.

(I) INSA ENDOWMENT LECTURES

(i) PROFESSOR K RANGADHAMA RAO MEMORIAL LECTURE

(FOUNDED IN THE YEAR 1979 FROM AN ENDOWMENT OF RS. 10,000 BY OLD STUDENTS OF PROFESSOR K RANGADHAMA RAO)

1. The lecture will be given once in two years.

2. The lecture shall be given under the auspices of the different Local Chapters of the INSA by scientists known for their outstanding contribution in the field of spectroscopy. The candidates proposed for the lecture should play no role in selection for the award.

3. All Local Chapters shall be invited to suggest the name of two or three eminent scientists giving their bio-data and place of lecture. The Council at the meeting to be held in May shall select a suitable candidate out of this list. The name of the person selected by the Council for delivering this lecture shall be announced at the Annual General Meeting of the Academy in October.

4. The lecturer shall be paid a remuneration depending on the income from the Endowment besides, travelling and halting expenses within India for journeys performed to deliver the lecture at the rate applicable to the members of the Council for attending meetings.

5. The lecturer shall deliver a lecture on a subject of his choice at a venue selected by the Academy. The lecturer shall submit, at least three months in advance, three copies of the lecture which shall be published by the Academy and over which the Academy shall have a copyright.

(ii) DR G P CHATTERJEE MEMORIAL LECTURE

(FOUNDED IN THE YEAR 1979 FROM AN ENDOWMENT OF RS. 15,000 BY DR G P CHATTERJEE AND MRS SUNITI CHATTERJEE)

1. The lecture will be given once in two years.

2 The lecture shall be given under the auspices of the different Local Chapters of the INSA by scientists known for their outstanding contribution in any field of science as recognised by the Academy. The candidate proposed for the lecture should play no role in selection for the award.

3. All Local Chapters shall be invited to suggest names of two or three eminent scientists, giving their bio-data and place of lecture. The Council at the meeting to be held in May shall select a suitable candidate out of this list. The name of the person selected by the Council for delivering this lecture shall be announced at the Annual General Meeting of the Academy in October.

4. The lecture shall be paid a remuneration depending on the income from the Endowment besides, travelling and halting expenses within India for journeys performed to deliver the lecture at the rate applicable to the members of the Council for attending meetings.

5. The lecturer shall deliver a lecture on a subject of his choice at a venue selected by the Academy. The lecturer shall submit, at least three months in advance three copies of the lecture which shall be published by the Academy and over which the Academy shall have a copyright.

(iii) DR HAR SWARUP MEMORIAL LECTURE

(FOUNDED IN THE YEAR 1981 FROM AN ENDOWMENT OF RS. 10,000/- BY DR (MRS) SAVITRI SWARUP)

1. The lecture will be given once in three years.

2. The lecture shall be given under the auspices of the different Local Chapters of the INSA by scientists known for their outstanding contribution in the field of Zoology. The candidate proposed for the lecture should play no role in selection for the award.

3. All Local Chapters shall be invited to suggest names of two or three eminent scientists giving their bio-data. The Council at its meeting to be held in May shall select a suitable candidate out of this list. The name of the person selected by the Council for delivering this lecture shall be announced at the Annual General Meeting of the Academy in October.

4. The lecturer shall be paid a remuneration depending on the income from the Endowment besides, travelling and halting expenses within India for journeys performed to deliver the lecture at the rate applicable to the members of the Council for attending meetings.

5. The lecturer shall deliver a lecture at a venue selected by the Academy. The lecture subject and venue shall be decided by the Council of the Academy at its meeting in May of the year of the lecture. The lecturer shall submit, at least three months in advance, three copies of the lecture which shall be published by the Academy and over which the Academy shall have a copyright.

(iv) PROFESSOR T S SADASIVAN LECTURE AWARD

(FOUNDED IN THE YEAR 1982 OUT OF AN ENDOWMENT OF RS. 25,000/- BY THE PROFESSOR T S SADASIVAN ENDOWMENT COMMITTEE).

1. The lecture will be given once in two years, the first in 1982.

2. The lecture in any field of Botany, shall be given by rotation under the auspices of the different Local Chapters of INSA by an eminent botanist of the country or an approved visitor to this country. The candidates proposed for the lecture should play no role in selection for the award.

3. The Local Chapters could suggest two or three names of eminent scientists giving their bio-data. The Council could select a suitable candidate out of this list and also specify the venue of the lecture. The names selected by the Council shall be announced at the Annual General Meeting of the Academy.

4. The lecturer shall be paid remuneration depending on the income from the Endowment besides, travelling and halting expenses within India for journeys performed to deliver the lecture at the rate applicable to the members of the Council for attending meetings.

5. The lecturer shall deliver a lecture on a subject of his choice at a venue selected by the Academy. The lecturer shall submit, atleast three months in advance three copies of the lecture which shall be published by the Academy and over which the Academy will have a copyright.

(v) PROFESSOR B D TILAK LECTURE AWARD

(Founded in the Year 1982 from an Endowment of Rs. 1,00,000 by Professor B D Tilak Scientific Research and Education Trust, National Chemical Laboratory, Pune)

1. The Lecture will be awarded every year. The first lecture will begin with 1983

2. The lecture shall be given under the auspices of the different Local Chapters of INSA by Scientists known for their outstanding contributions to Rural Economy and Life through innovative and effective application of Science and Technology.

3. The candidates proposed for the lecture should play no role in the selection of the award.

4. All Local Chapters shall be invited to suggest names of two or three eminent Scientists giving their bio-data and the venue of the lecture. Nominations will also be invited from the Fellows of the INSA and collaborating Scientific Societies.

5. The Council at its meeting to be held in May shall select a suitable candidate out of this list. The name of the person selected by the Council for delivering the lecture shall be announced at the Annual General Meeting of the Academy in August.

6. The lecturer shall be paid remuneration depending on the income from the Endowment besides, travelling and halting expenses within India for journeys performed for delivering the lecture at the rate applicable to the members of the Council for attending meetings.

7. The lecturer shall deliver a lecture at the venue selected by the Academy, on a subject of his choice. The lecturer shall submit at least three months in advance three copies of the lecture which shall be published by the Academy and over which the Academy shall have a copyright.

(vi) DR R D DESAI LECTURE AWARD

(FOUNDED IN THE YEAR 1982 OUT OF AN ENDOWMENT OF RS. 10,000/- COLLECTED BY THE STUDENTS AND FRIENDS OF PROFESSOR R D DESAI, FNA ON THE OCCASION OF HIS EIGHTY-FIFTH BIRTHDAY FELL ON 4-5-1982 RECEIVED THROUGH THE SECRETARY, DR R D DESAI PUBLIC CHARITABLE TRUST)

1. The lecture will be given once in three years, the first lecture will be in 1985.

2. The lecturer should be a Fellow of the Academy who has made significant contribution in any branch of Chemistry or Chemical Technology.

3. The lecture shall be given under the auspices of Ahmedabad Local Chapters of INSA. The candidates proposed for the lecture should play no role in selection for the award.

4. The Local Chapters could suggest two or three names of eminent chemists or chemical technologists who shall be

Fellows of the Academy, giving their bio-data. The Council could select a suitable candidate out of this list. The name selected by the Council shall be announced at the Annual General Meeting of the Academy.

5. The lecturer shall be paid remuneration depending on the income from the endowment besides, travelling and halting expenses within India for journeys performed to deliver the lecture at the rate applicable to the members of the Council for attending meetings.

6 The Lecturer shall deliver a lecture on a subject of his choice at a venue selected by the Academy. The lecturer shall submit, at least three months in advance three copies of the lecture which shall be published by the Academy and over which the Academy will have a copyright.

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